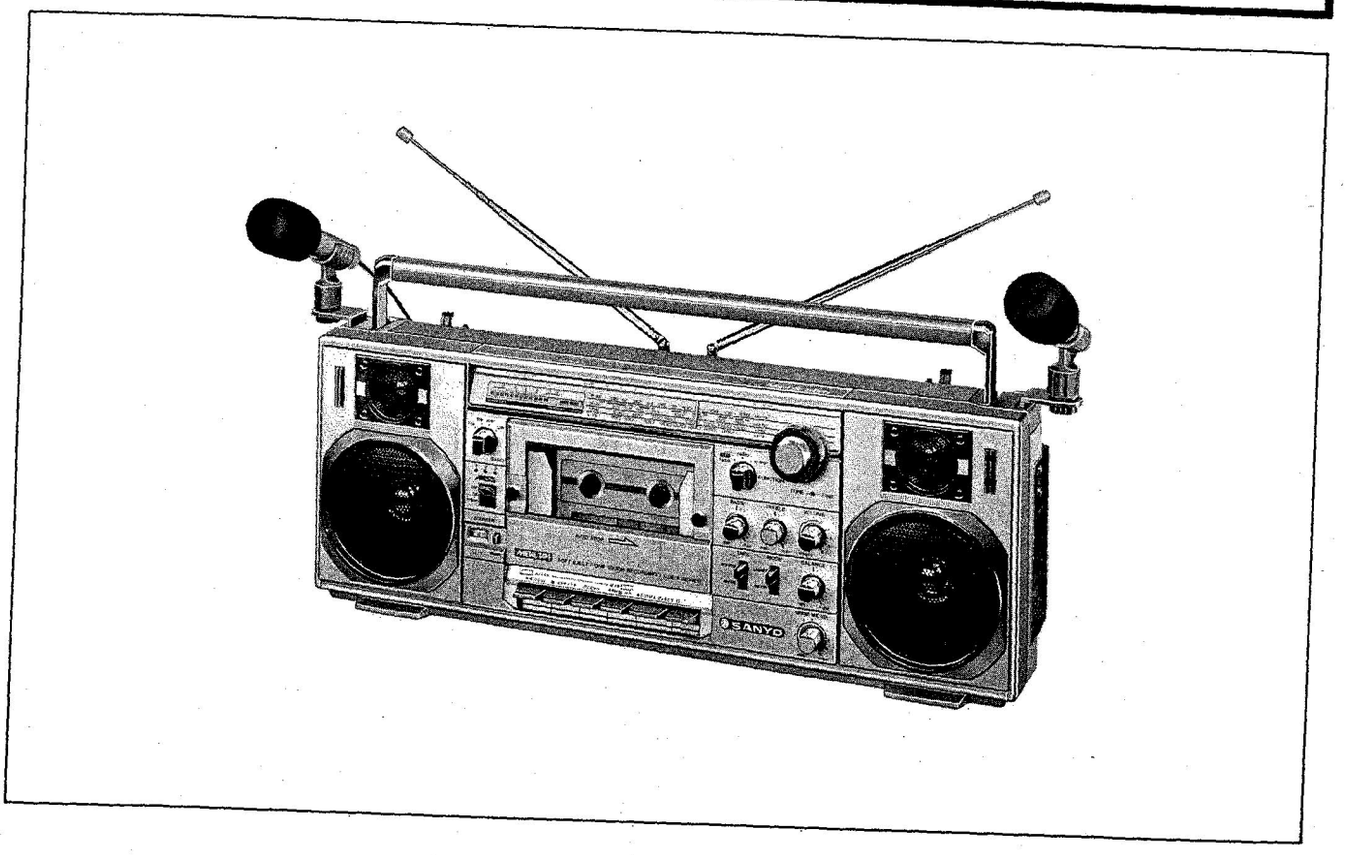
SERVICE MANUAL

CASSETTE RECORDER

SANYO

M7900LU



SPECIFICATIONS

Recording system	AC bias, 4-track stereo
Erasing system	AC erase, 2-track
Tape speed	4.75 cm/sec (1-7/8 i.p.s.)
Rewind and fast forward time	Rewind: 1 min. 40 sec. (C–60) Fast forward: 1 min. 40 sec. (C–60)
Frequency range	FM: 87.5 – 108 MHz SW: 5.95 – 18 MHz MW: 525 – 1,605 kHz LW: 150 – 285 kHz
Terminal impedance	MIC: 6 kohms REC/PB: (input) 0.12 mV/kohm (output) 2.2 kohms EXT SP: 3 – 8 ohms PHONES: 8 ohms
Frequency response	80 – 10,000 Hz (normal) 80 – 12,000 Hz (metal)
Output power	3.0 W x 2 maximum at 3 ohms load
Power source	DC: 9V "C" (UM–2) x 6 9V Car battery adaptor AC: 115/230V, 50/60Hz
Dimensions	420 (W) x 84 (D) x 155 (H) mm (16-9/16" x 3-3/8" x 6-1/8")
Weight	Approx. 3.5 kg (7 lbs. 12 ozs.) including batteries

* Specification subject to change without notice.

HOW TO REMOVE THE CABINET, CHASSIS AND MECHANISM

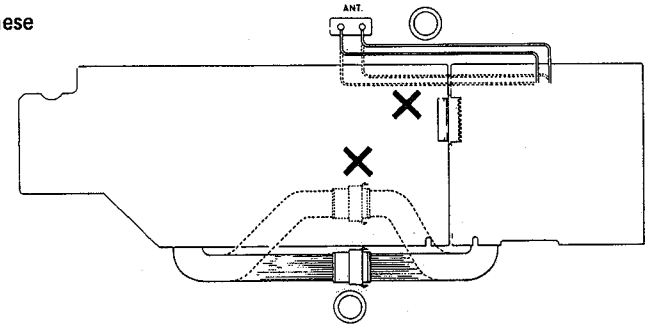
Should batteries are found put in the battery case or the power cord is found connected to the convenience outlet, be sure to remove them or disconnect the cord in advance.

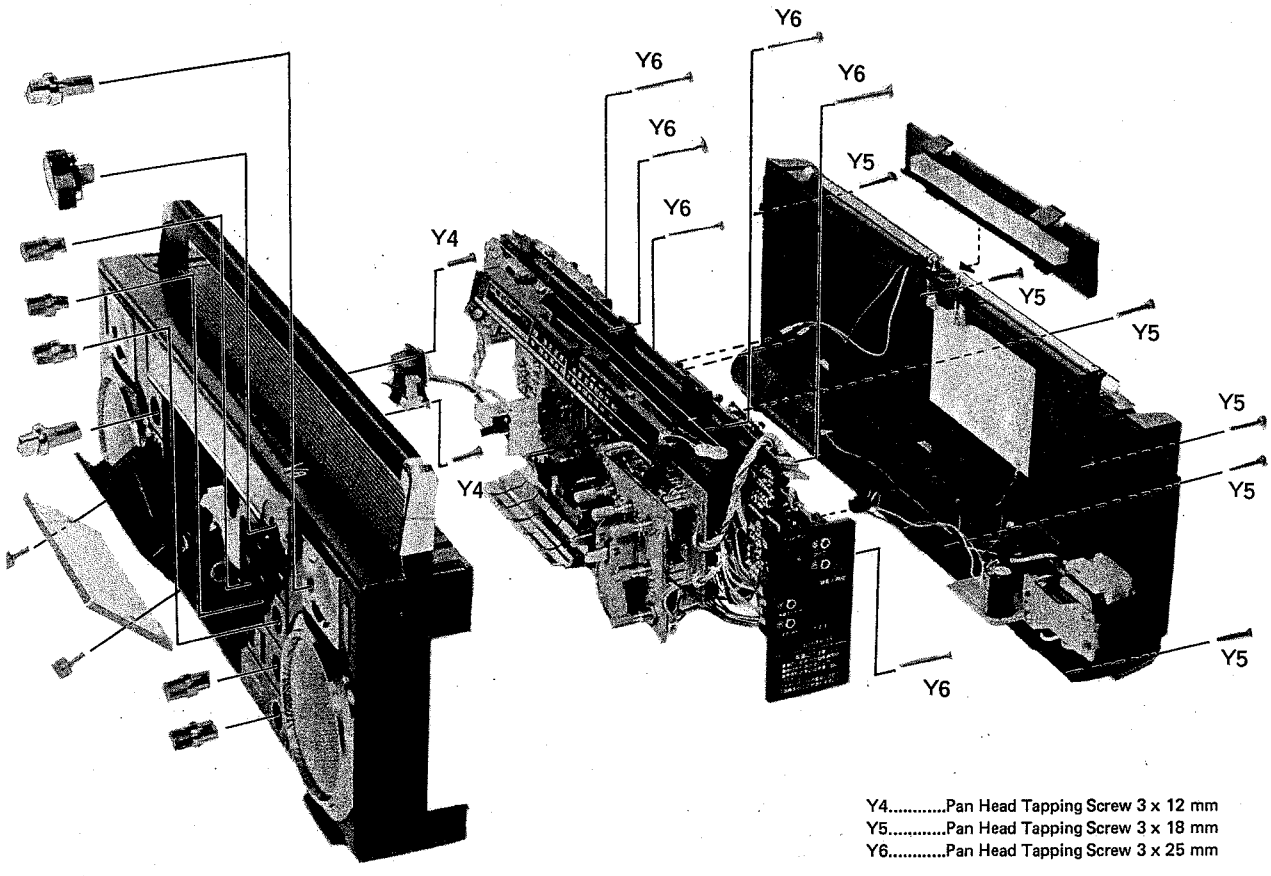
(1) How to remove the back lid

(A) Unscrew six black screws (M3 x 18 mm pan head tapping screws, one of which is provided inside the battery case) used to fasten the back lid.

(B) Detach the back lid as pushing up the bottom of this set. Next, disconnect sockets (2 antenna sockets* and 1 power socket) connecting the P.C.B. with back lid.

- When restoring, pay attention to shaping of lead wires of these sockets so that these lead wires stay on the back lid side.





Y4.....Pan Head Tapping Screw 3 x 12 mm
Y5.....Pan Head Tapping Screw 3 x 18 mm
Y6.....Pan Head Tapping Screw 3 x 25 mm

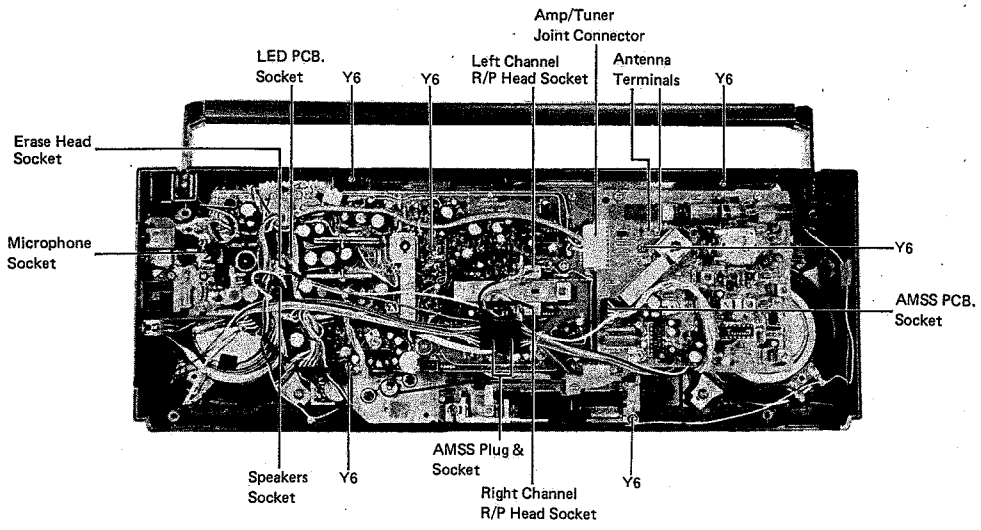
(2) How to remove the chassis

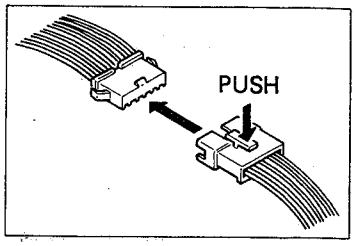
(A) Detach eight control knobs (band switch, tuning knob, selector switch, bass knob, treble knob, volume knob, balance knob and mixing microphone volume knob).

(B) Unscrew six red screws (M3 x 25 mm pan head tapping screws) used to fasten the chassis and cabinet together.

(C) Disconnect the socket* connecting the AMSS P.C.B. with AMSS Switch P.C.B. Next, disconnect the LED socket, speaker sockets and microphone socket.

- Shape lead wires of this socket so that it will not come above the P.C.B. (IC TA7137p in particular) but will come below the P.C.B. in parallel to it. Besides, how to disconnect this socket is as per the following sketch.



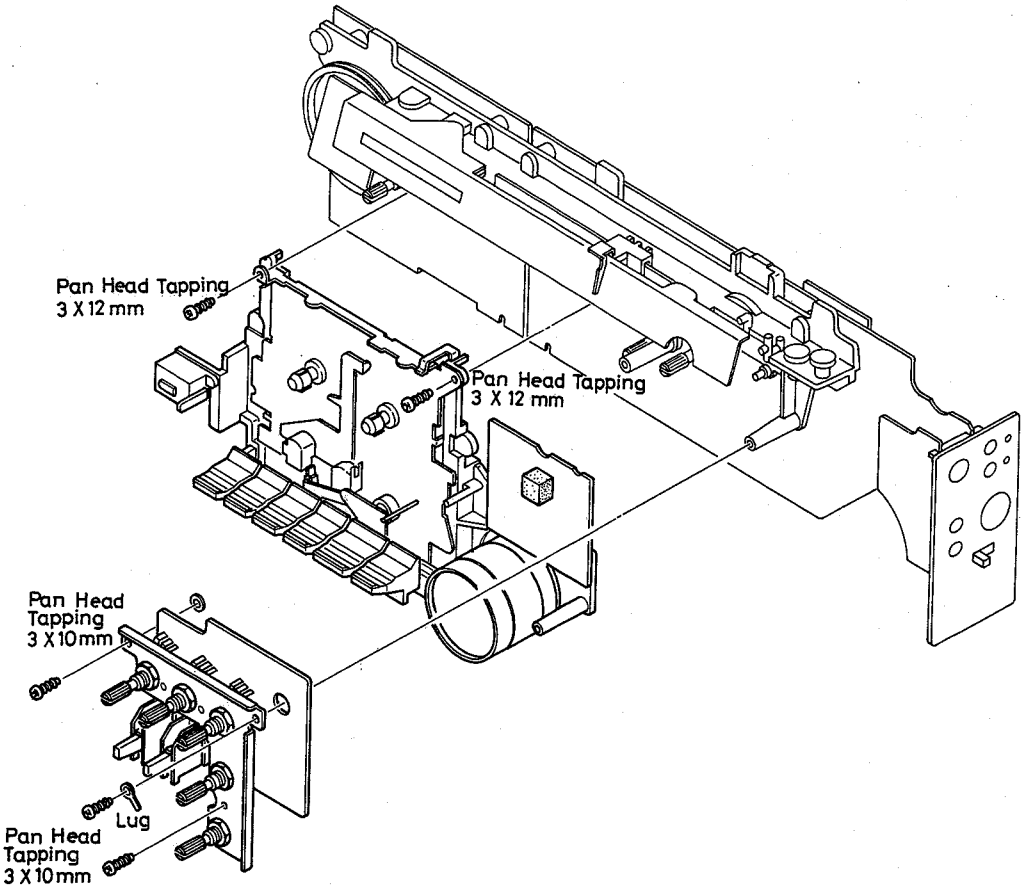


(3) How to remove the mechanism

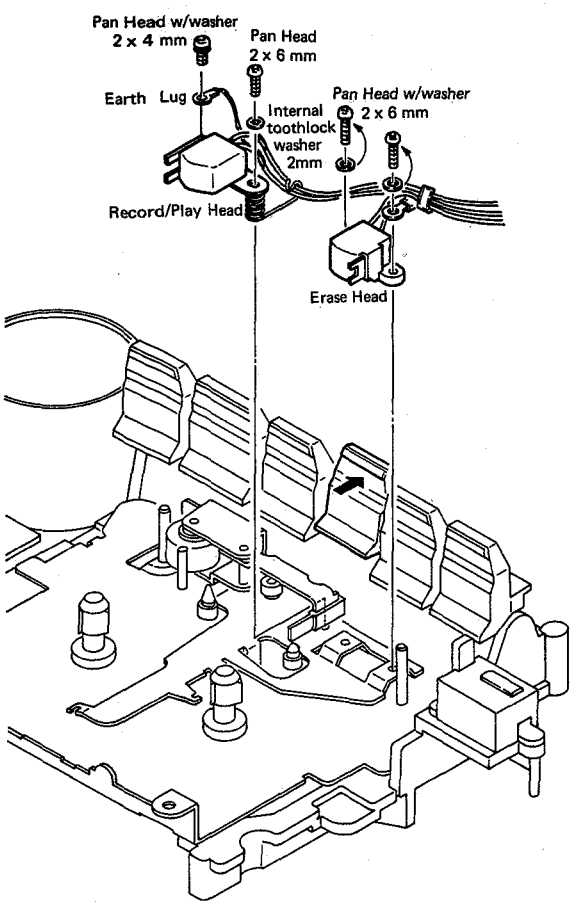
(A) Unscrew three black screws (1 - M3 x 8 mm pan head tapping screw and 2 - M3 x 12 mm pan head tapping screws) used to fasten the mechanism as well as detach one lug (29).

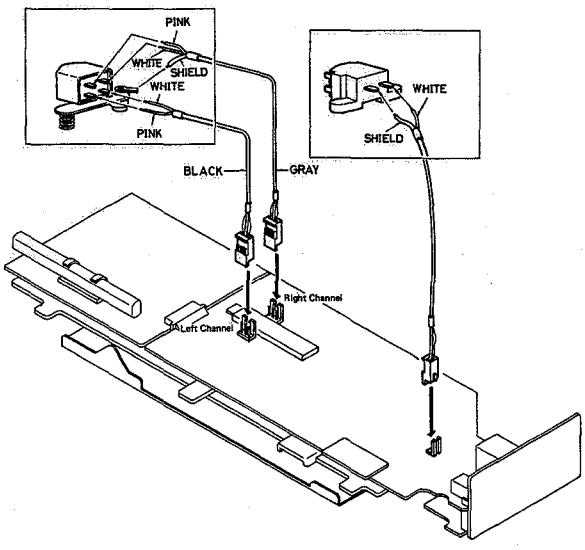
(B) Unscrew two screws (M3 x 10 mm pan head tapping screws) used to set the control P.C.B. (92) and detach the earth lug, and remove the P.C.B.

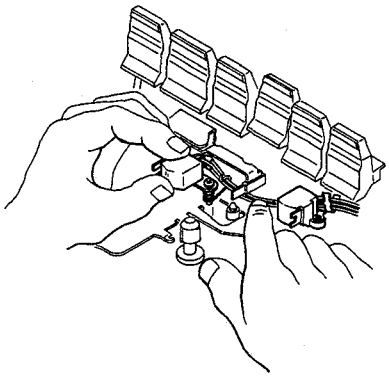
Under this condition, AMSS P.C.B. and lead socket of mechanism remain connected to the mechanism; but the belt, motor and recording/playback heads are replaceable.



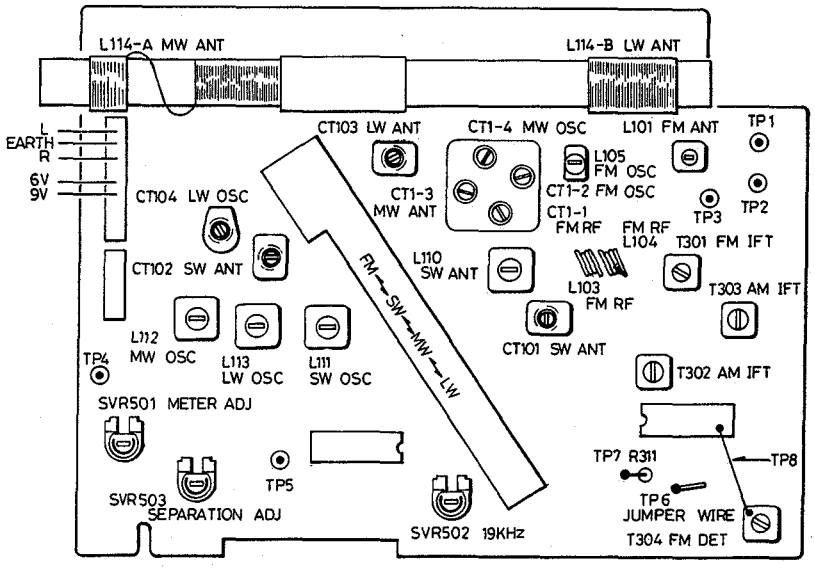
- **Replacement of recording/playback and erasing heads**
  Replace recording/playback heads as illustrated. To equip a new recording/playback head, attach the spring coil, washer, screws, etc. to the head beforehand; and put in the head assembly from the reel side (the front) to set it.
  This equipping is simpler than equipping the head after setting it alone.
  Connect the head with lead wire as shown in figure at right.







PARTS LOCATION (TUNER)



TUNER ADJUSTMENT

* DC voltage is 9V and Speaker Impedance 2.5 ohms. Output Power 50mW. (0.32V)

MW ADJUSTMENT

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I.F.T.	Connect sweep generator to Test Loop	Connect oscilloscope to EXT. SP terminals.	460 KHz	Low end of dial scale under no station signal.	T302, T303	Set a ceramic filter center
2	OSC.	Connect AM SG to Test Loop	Connect VTVM to speaker terminals.	505 KHz (400 Hz 30% modulation)	Low end of dial scale.	L112	MAX.
3				1670 KHz (400 Hz 30% modulation)	High end of dial scale.	CT1-4	
4	ANT.	Connect AM SG to Test Loop.	Connect VTVM to speaker terminals.	600 KHz (400 Hz 30% modulation)	600 KHz on dial scale.	L114A	MAX.
5				1400 KHz (400 Hz 30% modulation)	1400 KHz on dial scale.	CT1-3	
6	Repeat adjustments.						

PREPARE:
1. Set the dial pointer to very left line of dial scale.
2. Connect sweep generator, AM SG, VTVM and oscilloscope.
3. Selector switch to "MW".
4. Use a screwdriver with plastic grip for all adjustments.
5. Use a dummy of SP Magnet and Rod antenna, adjust cover and tracking points.

LW ADJUSTMENT

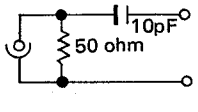
Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	OSC.	Connect AM SG to Test Loop.	Connect VTVM to speaker terminals.	145 KHz (400Hz 30% modulation)	Low end of dial scale.	L113	MAX.
2				295 KHz (400 Hz 30% modulation)	High end of dial scale.	CT104	
3	ANT.	Connect AM SG to Test Loop.	Connect VTVM to speaker terminals.	160 KHz (400 Hz 30% modulation)	160 KHz on dial scale.	L114 B	MAX.
4				280 KHz (400Hz 30% modulation)	280 KHz on dial scale.	CT103	
5	Repeat adjustments.						

PREPARE:
1. Set the dial pointer to very left line of dial scale.
2. Connect sweep generator, AM SG, VTVM and oscilloscope.
3. Selector switch to "LW".
4. Use a screwdriver with plastic grip for all adjustments.
5. Set the Fine Tuning to mechanical center.
6. Use a dummy of SP Magnet and Rod antenna, adjust cover and tracking points.

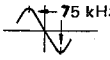
SW ADJUSTMENT

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	OSC.	Connect AM SG. to ANT terminal through dummy.	Connect VTVM to EXT. SP. terminals.	5.8 MHz (400Hz 30% modulation)	Low end of dial scale.	L111	MAX.
2				19 MHz (400Hz 30% modulation)	High end of dial scale.	CT102	
3	ANT.	Connect AM SG. to ANT terminal through dummy.	Connect VTVM to EXT. SP. terminals.	7.0 MHz (400 Hz 30% modulation)	7.0 MHz on dial scale.	L110	MAX.
4				18.0 MHz (400 Hz 30% modulation)	18.0 MHz on dial scale.	CT101	
5	Repeat adjustments.						

PREPARE:
1. Set the dial pointer to very left line dial scale.
2. Connect signal generator to dummy antenna.
3. Use screwdriver with plastic grip for all adjustments.
4. Selector switch to "SW"
5. Set the Fine Tuning to mechanical center.
6. Use a Dummy antenna as follow.



FM ADJUSTMENT

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I.F.	Connect sweep generator to FM TP1 (H) & TP2 (E)	Connect oscilloscope to TP7 (H) & TP 8 (E)	10.7 MHz (0% modulation)	Near max. capacitance tuning gang under no station signal.	T301	Set a ceramic filter center.
2	Ratio Det.		Connect oscilloscope to TP6 (H) & TP 8 (E)			T304	
3	OSC.	Connect FM SG to TP-1 (H) & TP-2 (E)	Connect VTVM to speaker terminal.	87.3 MHz(400 Hz 30% modulation)	Low end of dial scale.	L105	MAX.
4				108.25 MHz (400Hz 30% modulation)	High end of dial scale.	CT1-2	
5	ANT.	Connect FM SG to TP-1 (H) & TP-2 (E)	Connect VTVM to speaker terminal.	90.0 MHz (400 Hz 30% modulation)	90.0 MHz on dial scale.	L103, L104	MAX.
6				106.0 MHz (400 Hz 30% modulation)	106.0 MHz on dial scale.	CT1-1	
7	Repeat adjustments.						

PREPARE:
1. Set the dial pointer to very left line of dial scale.
2. Connect sweep genrator, FM SG, VTVM and oscilloscope. FM antenna input impedance is 300 ohm.
3. Use a screwdriver with plastic grip for all adjustments.

Caution for FM adjustment

* Input points of FM
  IF hot side (H): TP1
  IF earth side (E): TP2
  Output points
  IF hot side (H): V-curve ...TP7
  S-curve ...TP6
  IF earth side (E): TP8
* FM antenna dummy is of 300-ohm balanced type.
* Coverage adjustment should be based on the graduations of the dial scale.

Adjustment of signal meter

1. Tune in to 600 kHz in MW band, and set the SG input to-75 dB
2. Turn SVR501 until the volt reads 0.4 ± 0.1V between TP5 (Hot) and TP8 (ground)

Adjustment of FM multiplex

This adjustment should be done after adjustment of FMtuner.
Carrier signal modulation frequency: 1000 Hz
± 22.5 kHz dev.
Pilot signal (19 kHz): ±6.75 kHz dev.

Adjustment	Tuning frequency	Connection method of instruments		Freq. of sig. gen.	Adj. point	Traget value	Method of adjustment
		Input side	Output side				
VCO (19 kHz)	98 MHz	Connect hot side of FM-SG to TP1, earth side to TP2.	Connect hot side of freq. counter to TP4 earth side to TP8	98 MHz	SVR502	19 kHz ±100kHz	(1) In FM stereo mode, set output of FM-SG to 60 dB, and tune in. (2) * Adjust with no modulation
Separation	98 MHz		Connect DVTVM and oscilloscope to output speaker terminals, adjust volume control to standard output in both L and R channels.	98 MHz	SVR503	Balance in L and R channels, 1,000 Hz: above 30 dB	(1) In FM stereo mode, set FM-SG to 60dB, and tune in. (2) With tone controls at MIN and balance control in the center, adjust volume control to standard output. (3) By changing over the channels* on stereo modulator, adjust the leakage current of opposite channel to minimum.

* "No modulation" means to set MAIN & SUB signal and PILOT signal of stereo modulator to "OFF" position.
* When changing over the channels, exchange the connections of the external speaker terminals at the same time.
* Set band selector to FM, and mode selector to STEREO.

HOW TO PUT ON THE DIAL ROPE

(1) Preparation

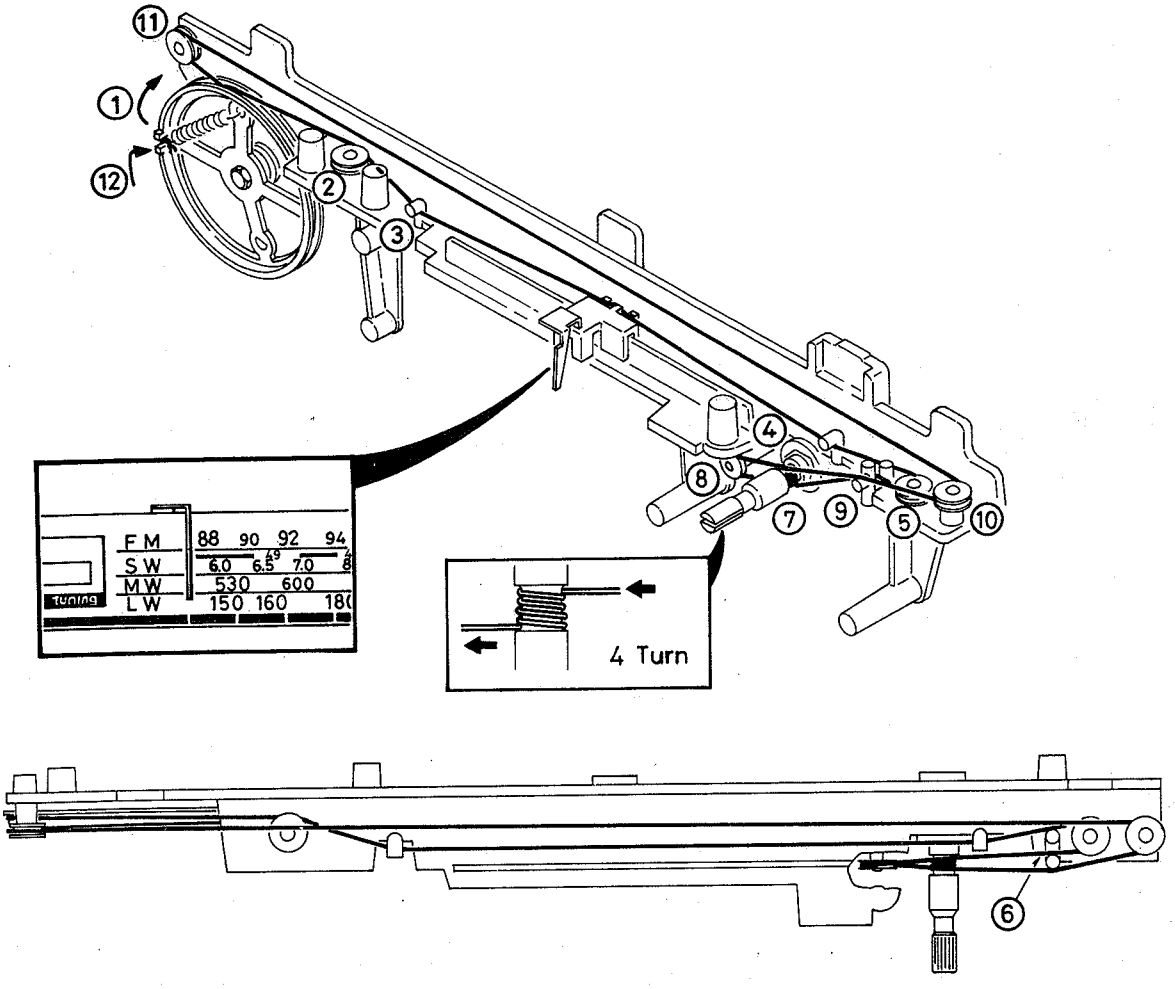
(A) Unscrew two screws (Y3) used to set the dial scale, and detach it from the rope.
(B) Prepare the 0.3 ϕ mm rope having length of 1,200 mm, and bind the rope to the spring coil so that the turning back length of rope becomes 536 ± 1 mm (by inner diameter).

(2) Arrangement

As shown in figure below, put an end of rope on the drum, pass another end of rope through 1 → 2 → 3 → 4 → 5 → 6, wind it aounr 7 for 4 turns, and return it to the spring coil after passing thorugh 8 → 9 → 10 → 11 → 12.

(3) Pointer positional adjustment

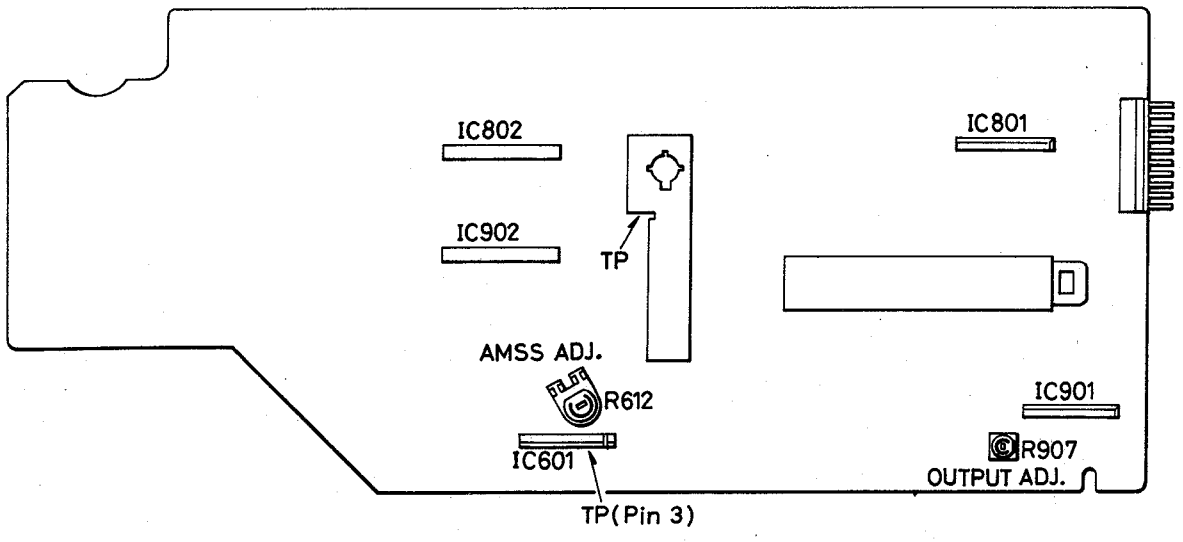
Turn the tuning shaft counterclockwise until it idles, and fix the pointer to agree it with the "0" graduation of dial scale.



ADJUSTMENT OF AMPLIFIER UNIT

(1) Output adjustment

Under the playback state of an 1 kHz-10 dB test tape (MTT118, for instance), adjust R907 10K(B) so that the difference in output level of left and right external speaker terminal outputs will become within ±1 dB.

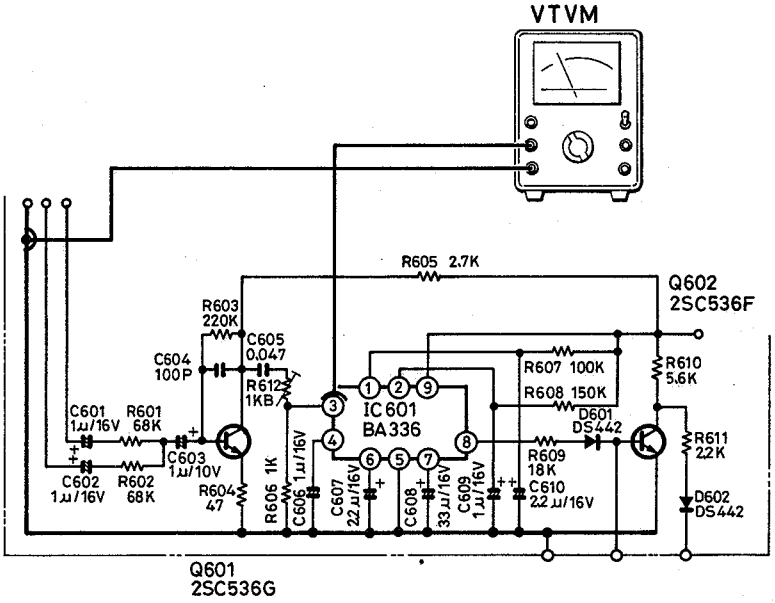


(2) AMSS adjustment

Perform AMSS action (depress the playback button and fast forward button) from the starting point of taking up an 1 kHz-35 dB tape, and adjust R612 10K(B) when letting the tape of run (while reading of the counter is 000 ~ 030) so that the AC voltage between point TP (pin 3 of IC 601) and the ground (selector switch shielding case) will become 4 mV.

Adjusting range: 4 ± 1 mV

Remarks: An 1 kHz–35 dB tape refers to a tape recorded from tape output of 1 kHz and 0 dB at –35 dB level. Use a highly accurate tape for 1 kHz–0 dB tape.



AMSS CIRCUIT DESCRIPTION

In this set, the AMSS circuit function and multitune program/tune selection circuit function have been adopted. The AMSS circuit function automatically searches for start of a tune by detecting the blank area (non-recorded area) between tunes of a music tape, for example, and the multitune program/tune selection circuit function enables skipping or programing within three tunes.

Note: Skipping more than three tunes is possible in view of control.

(1) Principal operation

A blank area is detected by amplifying signals sent from the recording/playback heads in playback, and the up down counter is operated by the number of detected signals. On the other hand, programing is performed by AMSS switch (to actuate the up down counter), and the plunger (for AMSS) is driven when the value of up down counter becomes zero (channel 1).

(2) Detailed description of each circuit

(A) Blank detection circuit

Reproduced signals detected by recording/playback heads of both the left and right channels are amplified by qualizer amplifiers (IC801 & IC901) and both of these signals are input to the base of Q601. Signals input are synthetized and amplified and then input to IC601. This input signal is amplified by preamplifier, and detected of the blank area by level comparator. If the blank area lasts more than the fixed time, such time is measured and detected by no-music time detection circuit (having time constant of R608 x C609 x 0.7 = 80 msec.). If measured and detected, one-shot pulse (having time constant of R607 x C610 x 0.7 = 150 msec.) is generated in the one-shot circuit and signal output from pin 8 of IC601 to input to the base of Q602.

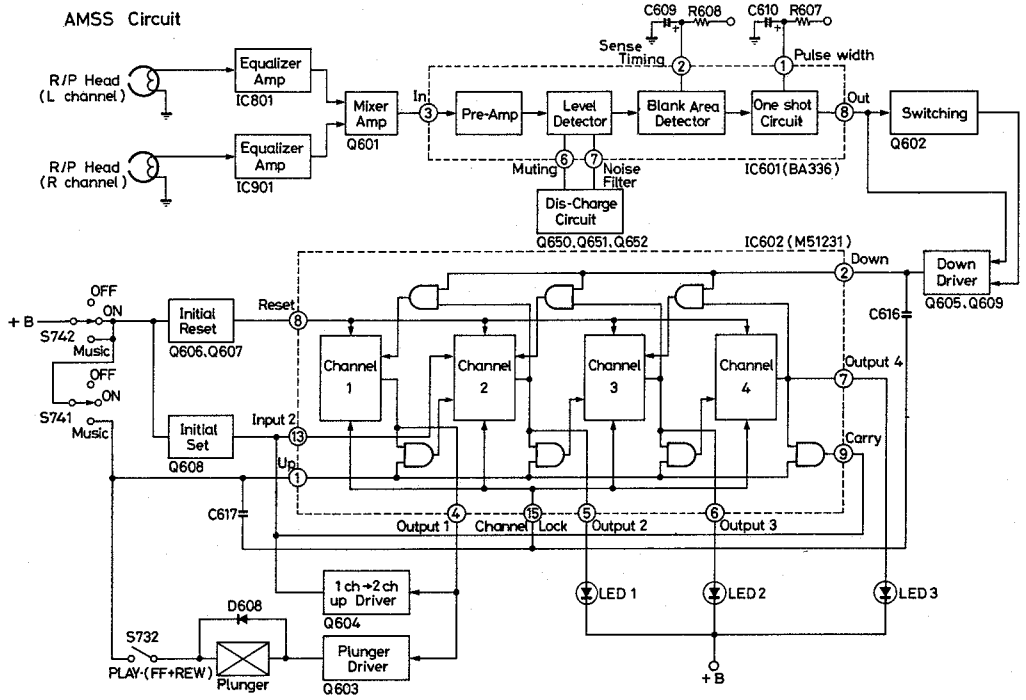
* Q602 is a switching transistor for pulse inversion. Pin 6 and pin 7 of IC601 are muting (switch) and noise filter, respectively, which form a malfunction protection circuit for blank detection circuit. However, if the circuit operates once, C607 and C608 are charged, and the circuit would not work. Hence, these pins of IC601 form a discharge circuit to let C607 and C608 discharge every time one-shot pulse is generated by Q650, Q651 and Q652. Incidentally, the blank detection circuit operates as the power is supplied to it when the selector switch is set in the "TAPE" position and PLAY (F·F + REW) siwtch (S732) is turned on.
* Q801 and Q901 form a muting circuit to deaden voice in AMSS action.

(B) Program circuit

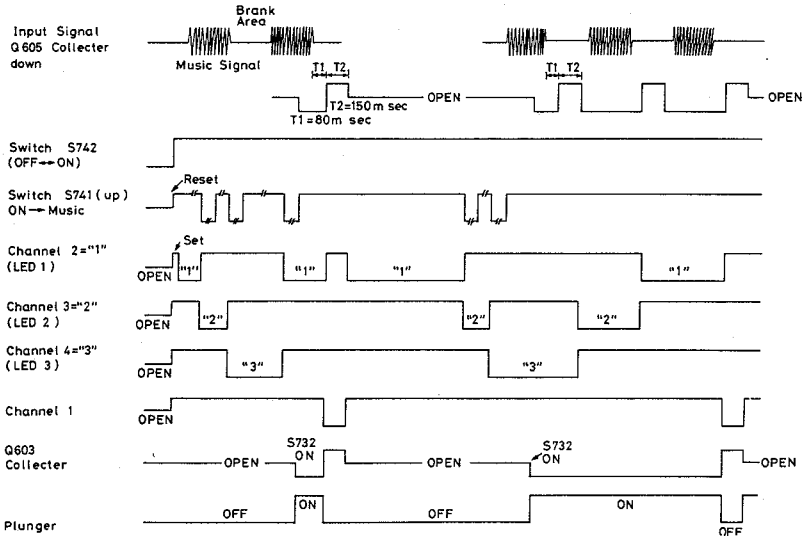
- As the AMSS switch (S742) is turned on, power "+B" becomes "AMSS + B", and line (pin 10) of IC602 is energized. At the same time, Q606 and Q607 operate in an instant, and reset (pin 8) of IC602 becomes LOW to reset 1 ~ 4 channel memory.
  Furthermore, Q608 comes into action after resetting of channel memory to set channel 2. This setting causes LED1 (D606) to light up.
- Every time the AMSS switch (S741) is changed over from the "ON" setting to the "CH. SELECT." setting, channel selection signal enters up (pin 1), and channel shifts as 1 (channel 2) → 2 (channel 3) → 3 (channel 4). Shifting of 3 (channel 4) → 1 (channel 2) takes place because pin 6 is connected to pin 13. C621 is provided for prevention of chattering, and C616 and C617 serve to release channel lock when up (pin 1)/down (pin 2) is in action.
- Every time the one-shot pulse is output by the blank detection circuit, Q605 operates to input this signal to down (pin 2), and channel shifts as 3 (channel 4) → 2 (channel 3) → 1 (channel 2) → 0 (channel 1).

* Q609 is already in action under the "ON" state of PLAY (F·F + REW) switch.

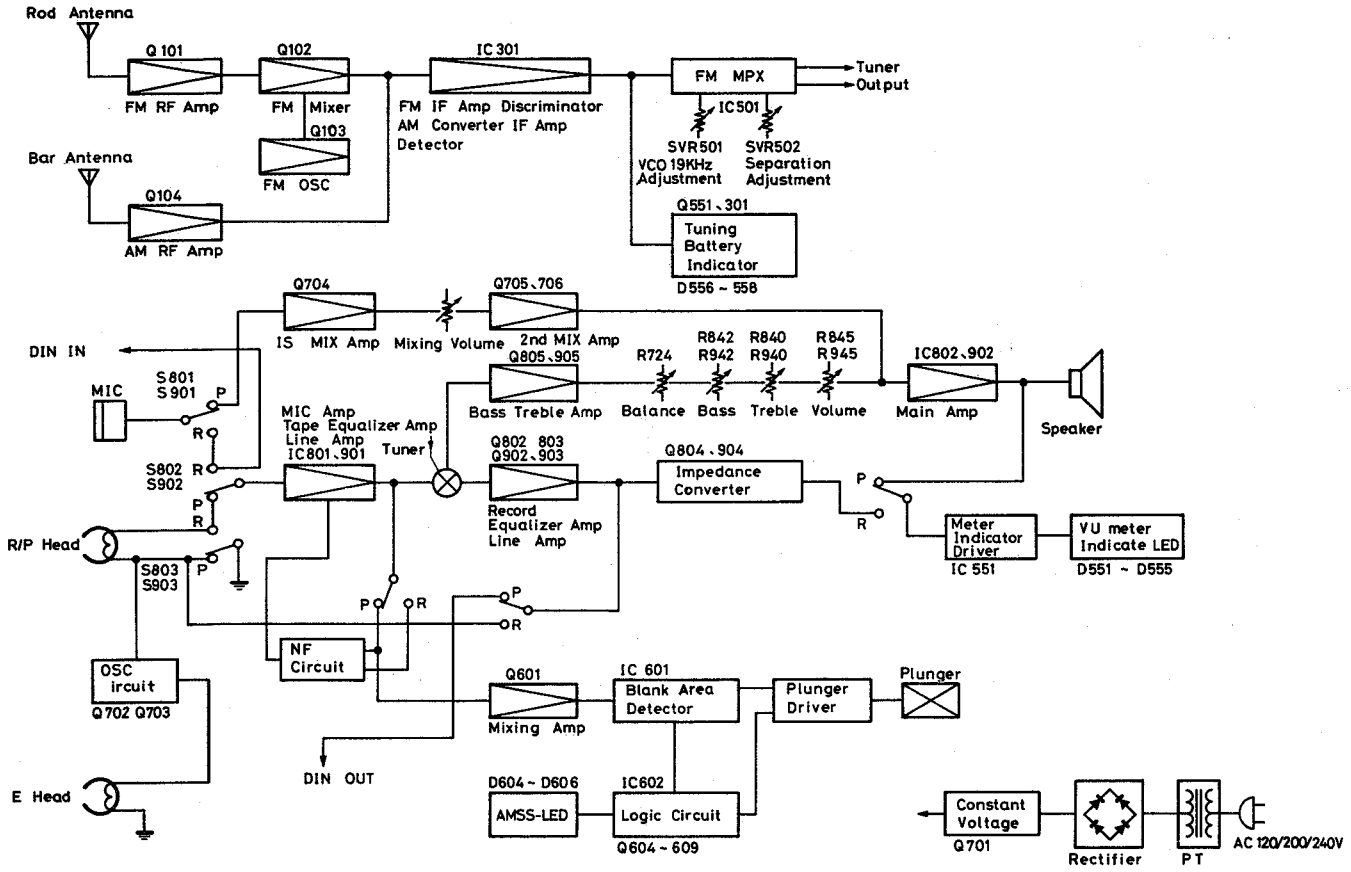
* As channel becomes 0 (channel 1), Q603 is cut off, and the plunger operates.
  At this time, Q604 functions simultaneously, and channel returns as 0 (channel 1) → 1 (channel 2). The plunger is normally attracting/sucking under the energized state.



AMSS TIMING CHART



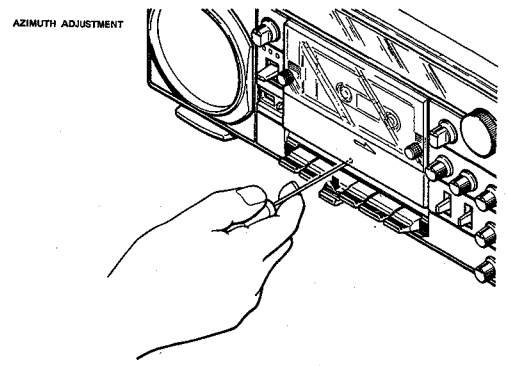
BLOCK DIAGRAM



ADJUSTMENT OF MECHANISM

(1) AZIMUTH ADJUSTMENT

Load with head angle correction tape (3 kHz standard tape), and set in play mode.
Insert small-size Phillips screwdriver into the hole provided in the upper part of play button in the cabinet, and turn azimuth adjusting screw (Y3) until the maximum sound volume without distortion may be obtained.



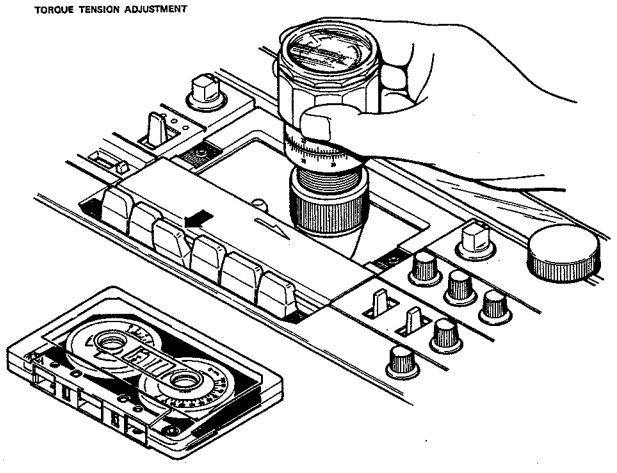
(2) MEASUREMENT OF TORQUE TENSION

Before measurement, make sure all parts are operating normally by checking visually, especially paying attention to cleanliness of the head and pinch roller.

Play (normal speed forwarding)	30 to 60 gr–cm
Fast-forwarding	80 to 150 gr–cm
Rewind	80 to 150 gr–cm
Cue, review	More than 80 gr–cm

On cassette type torque meter, the measurement should be:

Fast–forwarding	100 to 185 gr–cm
Rewind	90 to 185 gr–cm



(3) MEASUREMENT OF PINCH ROLLER PRESSURE

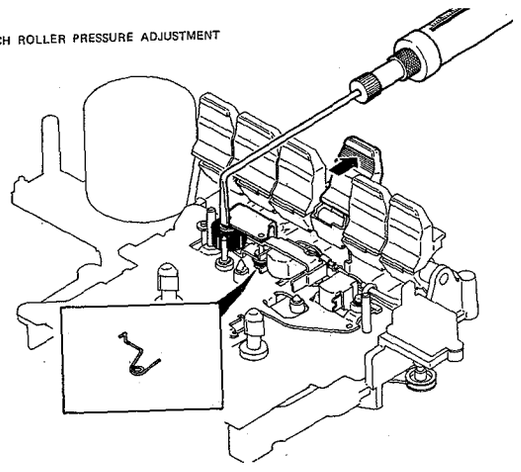
In the play mode as shown, measure the pinch roller pressure at the position of pinch roller shaft by means of tension gauge.

Take the measurement of pinch roller pressure when the rotation of pinch roller is about to stop.

Standard: More than 400 gr

If the pressure is below the standard value, adjust by means of the spring wire of mechanism No. A8 (141-2-852T-57900).

PINCH ROLLER PRESSURE ADJUSTMENT



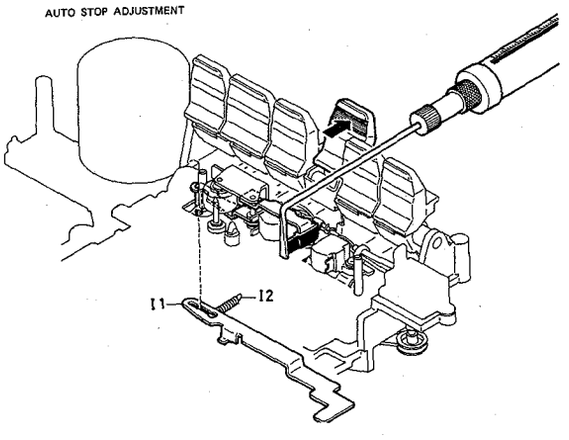
(4) MEASUREMENT OF AUTO–STOP FORCE

In the play mode as shown, fit a bar spring balance to the tip part of lever (A7) and return it slowly until the auto-stop takes effect.

Standard: 40 to 65 gr

If the force is out of the standard range, adjust by means of the spring coil of mechanism No. I2 (141-2-855T-42701).

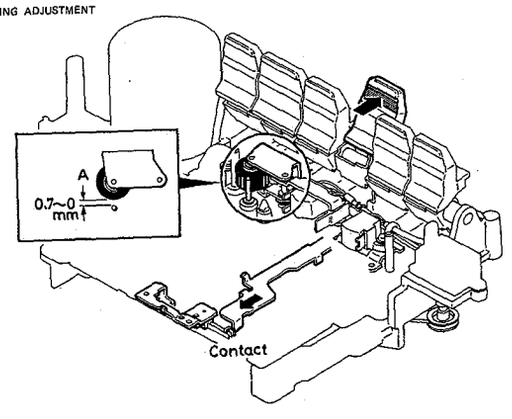
AUTO STOP ADJUSTMENT



(5) TIMING ADJUSTMENT OF MAIN SWITCH

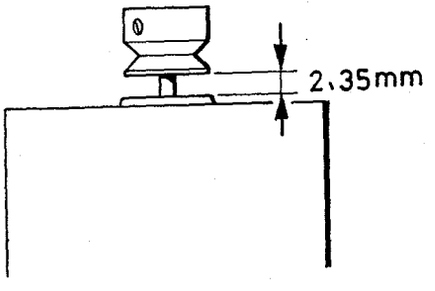
Set the main switch so that it may be turned on when the distance between pinch roller and capstan becomes equal to A (0.7 to 0 mm) in play mode.

SWITCH TIMING ADJUSTMENT



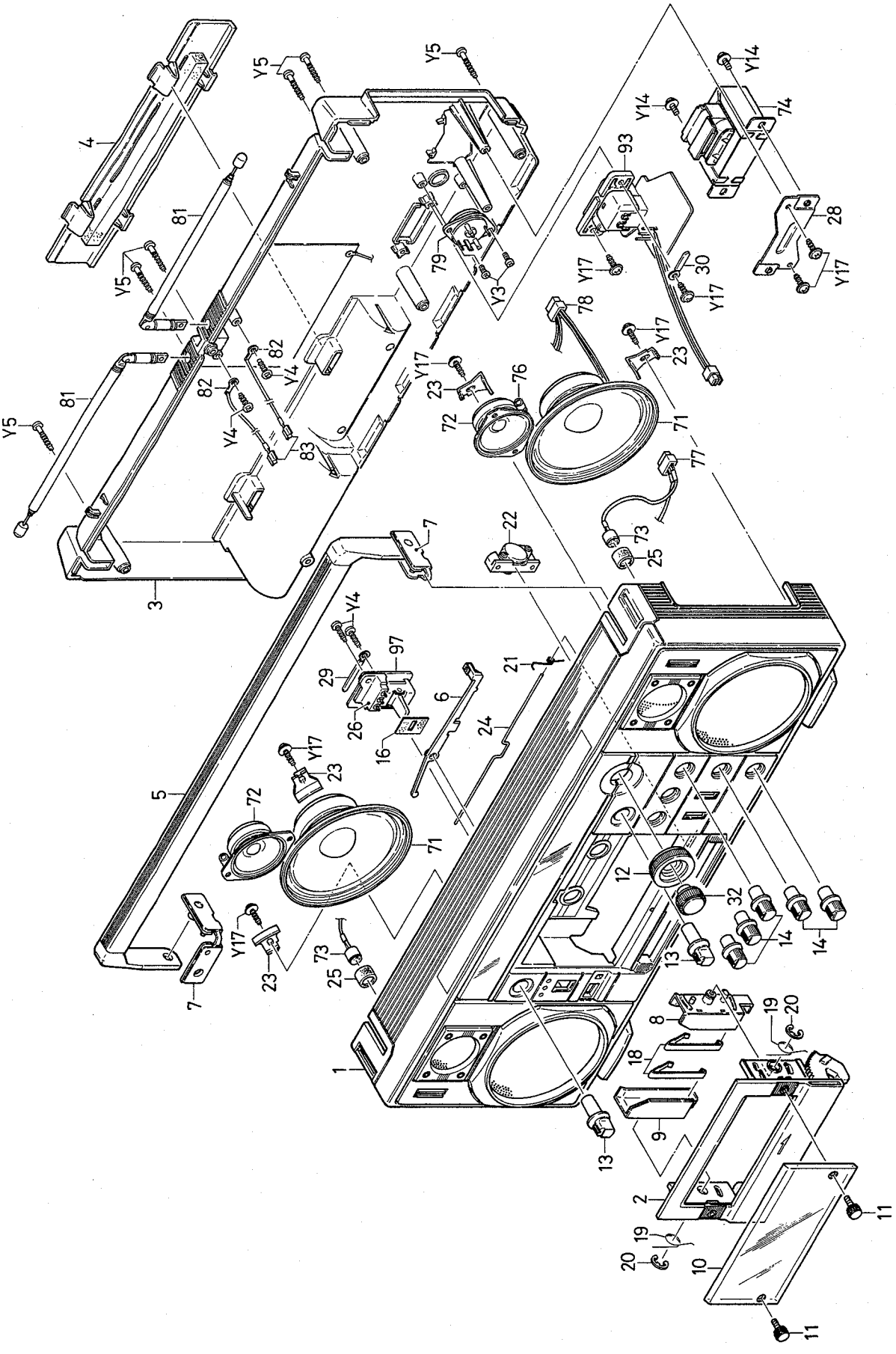
(6) MOUNTING HEIGHT OF MOTOR PULLEY

Install so that the distance between the motor pulley and motor may be 2.35 mm as shown in the sketch.

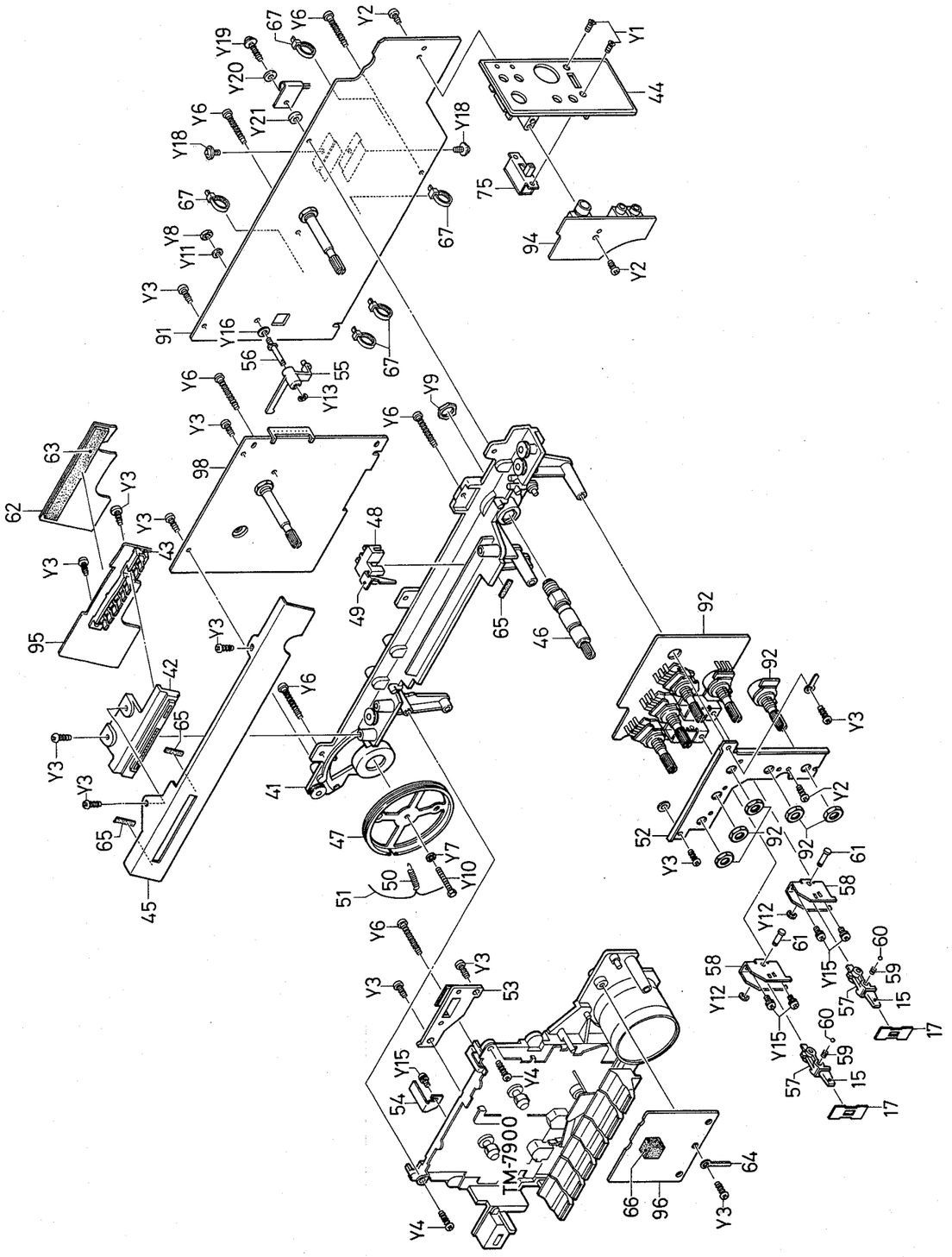


(NOTE) The speed can not be adjusted by means of motor in this machine.

EXPLODED VIEW (CABINET)



EXPLODED VIEW (CHASSIS)



PARTS LIST

Key No.	Part No.	Description	Q'ty
PACKING			
	141-6-133T-22203	Individual Carton	1
	141-6-144T-68800	Foam Plastic Case, L	1
	141-6-144T-68900	Foam Plastic Case, R	1
	141-6-231T-20350	Inner Polye Cover, Inst., M	1
	141-6-231T-30600	Inner Polye Cover, Set	1
	141-2-171T-09500	Handle	1
	141-6-144T-70200	Foam Plastic Case	1
	141-6-472T-18401	Caution Label	1
ACCESSORY			
	141-6-410T-57901	Instruction Manual	1
	4-243T-77980	Power Cord	1
	4-241T-15200	Cassette Tape	1
	141-0-385T-04900	Bracket Mic Ass'y	2
	4-153T-12900	Microphone	2
CABINET			
1	141-0-111T-46403	Cabinet Ass'y	1
2	141-0-124T-29500	Top Lid Ass'y	1
3	141-0-126T-35003	Back Lid Ass'y	1
4	141-0-128T-16700	Battery Lid Ass'y	1
5	141-0-171T-17400	Handle Ass'y	1
6	141-2-742T-58700	Lever, Eject	1
7	141-2-271T-17800	Bracket, Handle	2
8	141-2-210T-26100	Bracket	1
9	141-2-210T-26200	Bracket	1
10	141-2-131T-28700	Clear Window	1
11	141-2-421T-29800	Special Screw	2
12	141-2-163T-76300	Rotary Knob, Tuning	1
13	141-2-163T-74400	Rotary Knob, Band/Function	2
14	141-2-163T-74500	Rotary Knob, Vol/Bal/Bass/ Treb/Mix VR	5
15	141-2-162T-16330	Lever Knob, Tape/Mode	2
16	141-2-241T-23900	Veil, AMSS	1
17	141-2-241T-24400	Veil, Tape/Mode	2
18	141-2-853T-61100	Spring Plate	2
19	141-2-852T-67900	Spring Wire	2
20	141-2-457T-23400	Special Washer, 6x12x0.8t	2
21	141-2-852T-56801	Spring Wire, Top Lid	1
22	141-0-581T-07100	Gear Ass'y	1
23	141-2-372T-01901	Bracket, Speaker	4
24	141-2-753T-96600	Shaft	1
25	141-2-385T-03700	Bracket, MIC	2
26	141-2-210T-26600	Bracket, LED	1
27	141-2-447T-17100	Cushion, 15x20x12t	1
28	141-2-310T-52500	Bracket, Trans	1
29	141-2-472T-01001	Lug	2
30	123-2-472R-00601	Lug	1
31	141-2-447T-93400	Cushion 7x10x2t	1
32	141-2-163T-76400	Rotary Knob, Fine Tuning	1
CHASSIS			
41	141-0-311T-37001	Chassis Ass'y	1
42	141-2-210T-26300	Bracket, Meter LED	1
43	141-2-210T-27700	Bracket, Meter LED	1
44	141-2-367T-34901	Bracket, Socket	1
45	141-2-164T-25902	Dial Scale	1
46	141-0-566T-11100	Tuning Shaft Ass'y	1
47	141-2-538T-12700	Drum	1
48	141-2-513T-06100	Carrige	1
49	141-2-511T-20600	Pointer	1
50	123-2-481R-10300	Spring Coil	1
51	141-2-340T-03001	Rope	1
52	141-2-361T-18300	Bracket, PCB	1
53	141-2-210T-26400	Bracket PCB	1
54	141-2-853T-69400	Spring Plate	1
55	141-2-742T-58800	Lever, R/P Select	1
56	123-2-566R-12000	Shaft, R/P Select	1
57	141-2-742T-62400	Lever, Tape/Mode	2
58	141-2-747T-22000	Bracket, Lever	2

Key No.	Part No.	Description	Q'ty
CHASSIS			
59	141-2-855T-72400	Spring Coil	2
60	141-2-345T-00100	Steel Ball	2
61	141-2-754T-01600	Shaft	2
62	141-2-322T-67500	Shield Plate, VU Meter	1
63	141-2-447T-50300	Cushion	1
64	141-2-472T-01001	Lug	1
65	141-2-447T-00804	Cushion, 5x15	3
66	141-2-447T-92700	Cushion, 10x10x8t	1
67	141-2-464T-20600	Fixer	5
	141-2-246T-84500	Sheet, Fiber 22x41x0.3, Tuner PCB. Shield Plate	1
HARDWARE			
Y1		Flat Hd. Screw, 2x8mm	2
Y2		Pan Hd. Tapping Screw, 3x8mm	3
Y3		Pan Hd. Tapping Screw, 3x10mm	15
Y4		Pan Hd. Tapping Screw, 3x12mm	6
Y5		Pan Hd. Tapping Screw, 3x18mm	6
Y6		Pan Hd. Tapping Screw, 3x25mm	6
Y7		Spring Washer 2.6 mm	1
Y8		Hex. Nut 3ϕ	2
Y9		Hex. Nut 8ϕx 0.75t	1
Y10		Hex. Bolt, 2.6x20mm	1
Y11		Spring Washer, 3mm	1
Y12	141-2-457T-23800	E Ring, 1.5mm	2
Y13	141-2-457T-23000	E Ring, 2mm	1
Y14		Pan Hd. Screw W/Washer, 3x6mm	2
Y15		Pan Hd. Screw W/Spring, 2.6x4mm	5
Y16	141-2-453T-02000	Fiber Washer, 3x8x0.5	1
Y17		Pan Hd. Tapping Screw W/Washer, 3x10mm	4
Y18		Pan Hd. Tapping Screw W/Washer 3x6 mm	2
Y19		Pan Hd. Tapping Screw W/Washer 3x14 mm	1
Y20	141-2-453T-01200	Washer, Fiber 3x8x1 mm	1
Y21	141-2-453T-05700	Washer, Fiber 3x8x3.2 mm	1
ELECTRICAL PARTS			
71	4-151T-36200	Speaker, 92mm	2
72	4-151T-36700	Speaker, 40mm	2
73	4-153T-11771	Microphone	2
74	4-300T-35200	Power Trans	1
75	4-231T-19200	Switch, Beat	1
76		Electrolytic Cap. 4.7μF 10V Nonpolar (C849,949)	2
77	4-240T-00100	Socket, Mic	1
78	4-240T-00300	Socket, Speaker	1
79	4-231T-37607	Switch	1
81	4-244T-05100	Rod Antenna	2
82	123-2-472R-00400	Lug	2
83	4-235T-34600	Socket	2
MAIN AMP PCB ASS'Y			
91	141-4-233T-73171	P.C. Board Ass'y, Main Amp	1
	4-238T-25600	Switch, TA/RA/SL	1
	4-238T-18671	Switch, R/P	1
	4-235T-38000	Socket, Mic R	1
	4-235T-74100	Socket, Mic L	1
	4-235T-33300	Socket, DIN 5P	1
	4-236T-17600	Plug 2P, Power	1
	4-236T-17700	Plug 3P, R/P Head	2
	4-236T-17672	Plug 4p, Speaker & Mic	2
	4-236T-17672	Plug 4p, Control	1
	4-236T-17675	Plug 7P, Control	1
	4-236T-17676	Plug 8P, AMSS	1
L702	4-258T-29040	OSC Coil	1
L801,901	4-252T-08300	Choke 15mH, Bias Trap	2
L701	4-253T-13200	Filter 2.2μH	1
R612,907	4-222T-75075	Semifixed Variable Resistor 10KB	2
	4-236T-17771	Plug, Erase Head, 2P	1
	4-236T-10576	Plug, Tuner 9p	1

PARTS LIST

Key No.	Part No.	Description	Q'ty
MAIN AMP PCB ASS'Y			
L703	4-253R-10100	Filter 100μH	1
	141-2-368T-20000	Heat Sink, Power IC	1
IC802,902		IC BA534 Power	2
IC801,901		IC TA7137P Pre.Amp Stereo	2
IC601		IC BA336 AMSS	1
Q701		Transistor 2SD400 with FIN	1
Q704		Transistor 2SC1310	1
Q705,706, 802,803, 902,903		Transistor 2SC2603	6
Q801,901, 702,703, 805,905		Transistor 2SC536	6
Q804,904		Transistor 2SC536	2
Q650,651, **652,601**		Transistor 2SC536	4
D705		Zener Diode GZA6.8U	1
D609		Zener Diode GZA6.2L	1
D801,901, 802,803, 902,903, 804,805, 904,905, 807,808, 907,908, 806,906, 809,909		Diode DS442 X	18
		RESISTORS	
R935		Carbon 33 ohm ±10% 1/4W	1
R604		Carbon 47 ohm ±10% 1/4W	1
R947		Carbon 82 ohm ±10% 1/4W	1
R816,920, 931		Carbon 100 ohm ±10% 1/4W	3
R716		Carbon 820 ohm ±10% 1/4W	1
R817		Carbon 1K ohm ±10% 1/4W	1
R825,925		Carbon 2.2K ohm ±10% 1/4W	2
R848,948, 714,718		Carbon 2.7K ohm ±10% 1/4W	4
R904,804		Carbon 3.3K ohm ±10% 1/4W	2
R803,903		Carbon 1.8K ohm ±10% 1/4W	2
R828		Carbon 6.8K ohm ±10% 1/4W	1
R829,929		Carbon 10K ohm ±10% 1/4W	2
R906		Carbon 12K ohm ±10% 1/4W	1
R815		Carbon 33K ohm ±10% 1/4W	1
R801,901		Carbon 68K ohm ±10% 1/4W	2
R853,953		Carbon 3.3K ohm ±10% 1/4W	2
R850,950		Carbon 2.2K ohm ±10% 1/4W	2
R755		Carbon 68 ohm ±10% 1/4W	1
R805,905		Carbon 56K ohm ±10% 1/4W	2
R802,902		Carbon 470K ohm ±10% 1/4W	2
R810		Carbon 10 ohm ±10% 1/4W	1
R910		Carbon 10 ohm ±10% 1/4W	1
R703		Carbon 1 ohm ±10% 1/2W	1
R707		Carbon 4.7 ohm ±10% 1/4W	1
R705		Carbon 8.2 ohm ±10% 1/8W	1
R835		Carbon 33 ohm ±10% 1/4W	1
R834,934		Carbon 100 ohm ±10% 1/4W	2
R847		Carbon 82 ohm ±10% 1/4W	1
R711,916, 820		Carbon 100 ohm ±10% 1/4W	3
R814,914		Carbon 220 ohm ±10% 1/4W	2
R818,918		Carbon 330 ohm ±10% 1/4W	2
R720		Carbon 820 ohm ±10% 1/4W	1
R917		Carbon 1K ohm ±10% 1/4W	1
R819,919		Carbon 1.5K ohm ±10% 1/4W	2
R808,908		Carbon 1.8K ohm ±10% 1/4W	2
R706		Carbon 3.3K ohm ±10% 1/4W	1
R721		Carbon 1K ohm ±10% 1/4W	1
R833,933, 605		Carbon 2.7K ohm ±10% 1/4W	3
R760		Metal 1 ohm ±5% 1W	1
R822,922		Carbon 2.7K ohm ±10% 1/4W	2
R823,923, 824,924		Carbon 4.7K ohm ±10% 1/4W	4
R913,827, 927		Carbon 5.6K ohm ±10% 1/4W	3
R650		Carbon 5.6K ohm ±10% 1/4W	1
R928		Carbon 6.8K ohm ±10% 1/4W	1
R812,809, 909,912		Carbon 10K ohm ±10% 1/4W	4
R764		Carbon 0 ohm 1/3W	1
R806		Carbon 12K ohm ±10% 1/4W	1
R708,709		Carbon 18K ohm ±10% 1/4W	2
R712		Carbon 22K ohm ±10% 1/4W	1
R915		Carbon 33K ohm ±10% 1/4W	1
R826,926, 830,930		Carbon 100K ohm ±10% 1/4W	4
R607,653		Carbon 100K ohm ±10% 1/4W	2
R603		Carbon 220K ohm ±10% 1/4W	1
R832,932		Carbon 470K ohm ±10% 1/4W	2
R713		Carbon 680K ohm ±10% 1/4W	1
R710		Carbon 1M ohm ±10% 1/4W	1
R821,921		Carbon 1.5M ohm ±10% 1/4W	2
R608		Carbon 120K ohm ±10% 1/4W	1
R717		Carbon 680K ohm ±10% 1/4W	1
R601,602		Carbon 10K ohm ±10% 1/4W	2
R701		Carbon 2.2 ohm ±10% 1/4W	1
R704		Carbon 68 ohm ±10% 1/4W	1
R831		Carbon 100 ohm ±10% 1/4W	1
R634		Carbon 120 ohm ±10% 1/4W	1
R651,652		Carbon 3.3K ohm ±10% 1/4W	2
R654		Carbon 100K ohm ±10% 1/4W	1
R655		Carbon 10K ohm ±10% 1/4W	1
R715,719		Carbon 150 ohm ±10% 1/4W	2
R702,846		Carbon 150 ohm ±10% 1/4W	2
R946		Carbon 150 ohm ±10% 1/4W	1
R813,811, 911		Carbon 5.6K ohm ±10% 1/4W	3
R807		Carbon 1.2K ohm ±10% 1/4W	1
R761		Carbon 5.6K ohm ±10% 1/4W	1
R762		Carbon 1.5K ohm ±10% 1/4W	1
R763		Carbon 2.7K ohm ±10% 1/4W	1
R660		Carbon 100K ohm ±10% 1/4W	1
R661		Carbon 18K ohm ±10% 1/4W	1
		CAPACITORS	
C707		Electrolytic 220μF 16V	1
C709		Electrolytic 470μF 16V	1
C847,947, 710		Electrolytic 470μF 10V	3
C841,941		Electrolytic 220μF 16V	2
C711,732, 831,931		Electrolytic 220μF 10V	4
C846,946		Electrolytic 100μF 16V	2
C622,810, 910,820, 920		Electrolytic 100μF 10V	5
C842,942		Electrolytic 100μF 10V	2
C844,944		Electrolytic 47μF 16V	2
C712,808, 908,809, 909		Electrolytic 47μF 10V	5
C824,924		Electrolytic 100μF 10V	2
C713,811, 911		Electrolytic 10μF 10V	3
C855,821, 921,955		Electrolytic 10μF 16V	4
C840,940		Electrolytic 1μF 25V	2
C823,923, 607,610, 804,904		Electrolytic 2.2μF 25V	6
C723,725, 726,729		Electrolytic 1μF 25V	4
C822,922		Electrolytic 0.47μF 25V	2
C740		Electrolytic 470μF 10V	1
C741	4-223T-11000	Capacitor 1000μF 16V SMALL	1
C608		Electrolytic 4.7μF 16V	1
C728,828, 928,850, 950,731		Al Electrolytic 0.1μF 10V +40—20%	6
C609		Tantal 1μF 10V ±10%	1
C724,727, 730,895, 905		Ceramic 100pF 50V ±10%	5
C819,919, 829,929, 855,955		Ceramic 100pF 50V ±10%	6
C718,719, 803,903, 807,907		Ceramic 220pF 50V ±10%	6

PARTS LIST

Key No.	Part No.	Description	Q'ty
MAIN AMP PCB ASS'Y			
C604,825, 925		Ceramic 560pF 50V ±10%	3
C818,918,		Ceramic 390pF 50V ±20%	2
C827,927		Ceramic 0.022μF 50V +80—20%	2
C851,951		Ceramic 220pF 50V ±10%	2
C806,906		Ceramic 100pF 50V ±10%	2
C816,916		Ceramic 270pF 50V ±10%	2
C604		Ceramic 560pF 50V ±10%	1
C813,913, 814,914		BC Con 0.001μF 25V ±20%	4
C843,943		BC Con 0.0015μF 25V ±20%	2
C845,945		BC Con 0.0068μF 25V ±20%	2
C826,926		BC Con 0.015μF 25V ±20%	2
C815,915		BC Con 0.01μF 25V ±20%	2
C735		BC Con 0.015μF 25V ±20%	1
C812,912		BC Con 0.018μF 25V ±20%	2
C801,901, 745		BC Con 0.022μF 25V ±20%	3
C830,930		BC Con 0.068μF 25V ±20%	2
C848,948		BC Con 0.5μF 12V +80—20%	2
C737		BC Con 0.0022μF 25V ±20%	1
C856,956		BC Con 0.0068μF 12V ±20%	2
C722		Mylar 0.0015μF 50V ±20%	1
C721		Mylar 0.001μF 50V ±20%	1
C716,717		Mylar 0.0033μF 50V ±20%	2
C714		Mylar 0.0047μF 50V ±20%	1
C715		Mylar 0.015μF 50V ±20%	1
C720		Mylar 0.018μF 50V ±20%	1
C858,958		BC Con 0.0033μF 25V ±20%	2
C605		BC Con 0.0022μF 25V ±20%	1
C650		Mylar 0.047μF 50V ±20%	1
C802,902		Al Electrolytic 0.1μF 10V +40—20%	2
C603,606		Electrolytic 1μF 25V	2
C601,602		BC Con 0.0022μF 25V ±20%	2
C651		BC Con 0.1μF 12V ±20%	1
C817,917		BC Con 0.068μF 25V ±20%	2
CONTROL PCB ASS'Y			
92	141-4-233T-73200	P.C. Board Ass'y, Control	1
R845,945	4-222T-88100	Variable Resistor	1
R840,842, 940,942	4-222T-88200	Variable Resistor	2
R724	4-222T-88300	Variable Resistor	1
R723	4-222T-88400	Variable Resistor	1
	4-238T-25800	Switch	2
	4-240T-00400	Socket 7P	1
	4-240T-00500	Socket 4P	1
		CAPACITORS	
C837,937		Al Electrolytic 0.22μF 10V +40—20%	2
C835,935		BC Con 0.082μF 25V ±20%	2
C836,936		BC Con 0.022μF 25V ±20%	2
C834,934		BC Con 0.0047μF 25V ±20%	2
C838,938		BC Con 0.0018μF 25V ±20%	2
C839,939		BC Con 0.047μF 25V ±20%	2
		RESISTORS	
R941		Carbon 10K ohm ±10% 1/4W	1
R844		Carbon 3.3K ohm ±10% 1/4W	1
R943		Carbon 1K ohm ±10% 1/4W	1
R841		Carbon 10K ohm ±10% 1/4W	1
R944		Carbon 3.3K ohm ±10% 1/4W	1
R843		Carbon 1K ohm ±10% 1/4W	1

Key No.	Part No.	Description	Q'ty
POWER SUPPLY PCB ASS'Y			
93	141-4-233T-73302	P.C. Board Ass'y, Power Supply	1
	4-235T-35900	Socket, AC/DC	1
	141-2-135T-44900	Cover	1
	4-240T-00600	Socket	1
D701,702, 703,704		Diode SR1K2	4
C701,702, 703,704		Ceramic Cap 0.022μF 50V +80—20%	4
C705		Electrolytic Cap. 2200μF 16V	1
	4-234T-05300	Fuse 1.25A	1
	141-2-381T-04200	Holder	2
HEADPHONE PCB ASS'Y			
94	141-4-233T-73400	P.C. Board Ass'y, Headphone	1
	4-235T-60671	Socket, Headphone	1
	4-235T-38000	Socket, 3.5φ	2
R849,949		Carbon Res. 100 ohm ±10% 1/4W	2
LED PCB ASS'Y			
95	141-4-233T-73571	P.C. Board Ass'y LED	1
	4-240T-00700	Socket	1
IC551		IC LB1405	1
Q551		Transistor 2SC2603	1
D559		Varister MA26W	1
D551,552, 553,554, 555		LED SLP152B B Red. VU	1
D556,557		LED SLP151B B Red, ST/Batt.	2
D558		LED SLP251B Green, Tu	1
L501	5-252T-06200	Choke Coil 100μH	1
		CAPACITORS	
C551		Electrolytic 4.7μF 16V	1
C553,554		Electrolytic 1μF 25V	2
C555		Electrolytic 220μF 16V	1
C552		Ceramic 47pF 50V ±10%	1
C560,561 562,563, 564		Electrolytic 4.7μF, 25V	5
		RESISTORS	
R556		Carbon 68 ohm ±10% 1/4W	1
R555		Carbon 560 ohm ±10% 1/4W	1
R554		Carbon 6.8K ohm ±10% 1/4W	1
R553		Carbon 15K ohm ±10% 1/4W	1
R551		Carbon 18K ohm ±10% 1/4W	1
R552		Carbon 100K ohm ±10% 1/4W	1
R557		Carbon 390 ohm ±10% 1/4W	1
R558		Carbon 6.8K ohm ±10% 1/4W	1
AMSS PCB ASS'Y			
96	141-4-233T-73600	P.C. Board Ass'y, AMSS	1
	4-240T-00800	Socket, Main	1
	4-240T-00900	Socket, AMSS Switch	1
IC602		IC M51231P	1
Q603		Transistor 2SD545	1
Q604		Transistor 2SA608	1
Q605,606, 607,608,		Transistor 2SC536	4
D607		Zener Diode GZA6.2L	1
D608		Diode SR1K2	1
D603		Diode DS442 X	1
		CAPACITORS	
C618		Electrolytic 47μF 16V	1
C619		Al Electrolytic 0.47μF 10V +40—20%	1
C615		Al Electrolytic 4.7μF 16V	1
C616,617		Ceramic 0.01μF 50V +80—20%	2
C620		Al Electrolytic 0.1μF 10V +40—20%	1

PARTS LIST

Key No.	Part No.	Description	Q'ty
AMSS PCB ASS'Y			
		RESISTORS	
R626		Carbon 68 ohm ±10% 1/4W	1
R624		Carbon 330 ohm ±10% 1/4W	1
R622		Carbon 1.2K ohm ±10% 1/4W	1
R628		Carbon 1.8K ohm ±10% 1/4W	1
R617,620		Carbon 2.2K ohm ±10% 1/4W	2
R621		Carbon 6.8K ohm ±10% 1/4W	1
R618,625		Carbon 10K ohm ±10% 1/4W	2
R627		Carbon 47K ohm ±10% 1/4W	1
R616		Carbon 33K ohm ±10% 1/4W	1
R629,630, 631,632		Carbon 220K ohm ±10% 1/4W	4
R619		Carbon 680 ohm ±10% 1/4W	1
AMSS SWITCH PCB ASS'Y			
97	141-4-233T-47700	P.C. Board Ass'y, AMSS Switch	1
	4-238T-25700	Switch	1
	4-240T-01000	Socket	1
D604,605, 606		LED SLP144B Red	3
R623		Carbon Res. 1.2K ohm ±10% 1/4W	1
C621		Electrolytic Cap. 0.47μF 50V	1
TUNER PCB ASS'Y			
98	141-4-233T-85471	P.C. Board Ass'y, Tuner	1
VCT1-1~4	4-224T-16800	Variable Resistor	1
CT1-1~4			
SW1-1 ~9	4-238T-28100	Switch	1
	4-236T-17673	Plug 5P	1
	4-235T-38796	Socket 9P	1
L114AB	4-257T-43301	ANT Coil Ass'y	1
L113	4-248T-30440	OSC Coil, MW	1
L112	4-258T-31000	OSC Coil, LW	1
L111	4-258T-30900	OSC Coil, SW	1
L110	4-257T-44510	ANT Coil, SW	1
L101	4-257T-39240	ANT Coil, FM	1
L102	4-265R-00200	VHF Coil, Trap Adj	1
L105	4-265T-51310	VHF Coil, FM OSC	1
L104	4-265R-13700	VHF Coil, FM RF	1
L103	4-265T-01200	VHF Coil, FM RF	1
T301	4-256R-20810	IFT	1
T302	4-256T-22210	IFT	1
T303	4-256T-22310	IFT	1
T304	4-256T-22410	IFT	1
CT101,102	4-224R-11600	Trimmer 8pF	2
CT103	4-224T-15600	Trimmer 15pF	1
CT104	4-224T-15400	Trimmer 30pF	1
L107	4-253R-12800	Choke Coil	1
L109	4-253T-10815	Filter	1
L106	4-253T-10800	Filter 1mH	1
	141-2-322T-70300	Shield Plate; IC301	1
CF303	4-256T-81171	IF Filter, AM 460kHz	1
CF301, 302	4-256T-80400	IF Filter, FM) or	2
	4-256T-80474	IF Filter, FM	
SVR501	4-222T-71173	Semifixed Variable Resistor 2K	1
SVR503	4-222T-71172	Semifixed Variable Resistor 1K	1
SVR502	4-222T-71175	Semifixed Variable Resistor 10K	1
CF501,502	4-227T-02300	CR Pack	2
Q103		Transistor 2SC930	1
Q101,102		Transistor 2SC535	2
Q502		Transistor 2SA608	1
Q501		Transistor FET 2SK44	1
Q301		Transistor 2SC536	1
D302,501		Diode DS442 X	2
D101		Diode SD115	1
D301		Zener Diode GZA5.1L	1
D502		Varistor VD1221 M	1
IC501		IC LA3361	1
IC301		IC TA7614APYL DIP16	1
	141-2-322T-39600	Shield Plate	1
B101	123-2-471R-10900	Core	1
B102	123-2-471R-10400	Core	1
Q302		Transistor 2SK212	1
D102		Varyster MV12SA	1

Key No.	Part No.	Description	Q'ty
TUNER PCB ASS'Y			
		CAPACITORS	
C135		Ceramic 9pF 50V ±0.25pF	1
C115		Ceramic 2pF 50V ±0.25pF	1
C106,138		Ceramic 5pF 50V ±0.25pF	2
C121		Ceramic 13pF 50V ±0.25pF	1
C134		Ceramic 24pF 50V ±5%	1
C103		Ceramic 20pF 50V ±5%	1
C107		Ceramic 27pF 50V ±5%	1
C101		Ceramic 39pF 50V ±5%	1
C102		Ceramic 56pF 50V ±5%	1
C310		Ceramic 100pF 50V ±5%	1
C108		Ceramic 200pF 50V ±5%	1
C306		Ceramic 560 pF 50V ±5%	1
C116		Ceramic 5pF 50V ±0.25pF	1
C130		Ceramic 180pF 50V ±0.5pF N220	1
C129		Ceramic 6pF 50V ±0.5pF N1000	1
C112		Ceramic 8pF 50V ±0.25pF NP0	1
C117		Ceramic 16pF 50V ±5% N220	1
C113,114		Ceramic 20pF 50V ±5%	2
C122		Ceramic 68pF 50V ±0.5%	1
C104		Ceramic 150pF 50V ±10%	1
C508		Ceramic 560pF 50V ±10%	1
C119		Ceramic 0.0047μF 50V ±10%	1
C111,132 133,319		Ceramic 0.01μF 25V +80–20%	4
C105,109, 110,118, 123		Ceramic 0.022μF 25V +80–20%	5
C128,303		Ceramic 0.022μF 25V +80–20%	2
C305,307		Ceramic 0.047μF 25V +80–20%	2
C301,304, 309,311, 312.308		BC Con 0.022μF 25V ±10%	6
C507		BC Con 0.047μF 25V ±10%	1
C136		BC Con 0.0022μF 25V ±20%	1
C509		BC Con 0.0068μF 25V ±20%	1
C510		BC Con 0.0068μF 25V ±20%	1
C315		BC Con 0.01μF 25V ±10%	1
C316		Electrolytic 1000μF 6.3V	1
C513		Electrolytic 470μF 16V	1
C313		Electrolytic 47μF 10V	1
C314		Electrolytic 10μF 16V	1
C501		Electrolytic 3.3μF 25V	1
C317		Electrolytic 2.2μF 25V	1
C302,502, 504,505		Electrolytic 1μF 25V	4
C511,512		Al Electrolytic 0.1μF 10V ±20%	2
C503		Al Electrolytic 0.47μF 16V ±20%	1
C318		Electrolytic 100μF 10V	1
C125		Mylar 0.0033μF 50V ±20%	1
C506		P P Con 0.001μF 100V ±5%	1
C127		Styrol 250pF 50V ±5%	1
C126		Styrol 330pF 50V ±5%	1
C137		BC Con 0.039μF 25V ±20%	1
		RESISTORS	
R117		Carbon 47 ohm ±5% 1/4W	1
R121		Carbon 68 ohm ±5% 1/4W	1
R120		Carbon 82 ohm ±5% 1/4W	1
R301,309		Carbon 100 ohm ±5% 1/4W	2
R305,307		Carbon 150 ohm ±5% 1/4W	2
R302		Carbon 220 ohm ±5% 1/4W	1
R123		Carbon 330 ohm ±5% 1/4W	1
R101,505		Carbon 1K ohm ±5% 1/4W	2
R508,509		Carbon 3.9K ohm ±5% 1/4W	2
R116, 312,504		Carbon 6.8K ohm ±5% 1/4W	3
R112		Carbon 10K ohm ±5% 1/4W	1
R316		Carbon 22K ohm ±5% 1/4W	1
R506		Carbon 47K ohm ±5% 1/4W	1
R105		Carbon 560K ohm ±5% 1/4W	1
R516		Carbon 15 ohm ±5% 1/2W	1
R114		Carbon 100K ohm ±5% 1/4W	1
R502		Carbon 33 ohm ±5% 1/4W	1
R303		Carbon 10 ohm ±10% 1/4W	1
R503		Carbon 390 ohm ±5% 1/4W	1
R304		Carbon 100 ohm ±5% 1/4W	1
R107		Carbon 150 ohm ±5% 1/4W	1
R510,122		Carbon 680 ohm ±5% 1/4W	2
R125		Carbon 56K ohm ±10% 1/4W	1
R124		Carbon 2.2K ohm ±10% 1/8W	1

PARTS LIST

Key No.	Part No.	Description	Q'ty
TUNER PCB ASS'Y			
R110		Carbon 1K ohm ±10% 1/4W	1
R513,514		Carbon 1K ohm ±5% 1/4W	3
515			
R103,106		Carbon 1.5K ohm ±5% 1/4W	2
R310,313		Carbon 1.8K ohm ±5% 1/4W	2
R111		Carbon 3.3K ohm ±5% 1/4W	1
R511		Carbon 3.9K ohm ±5% 1/4W	1
R119,118		Carbon 8.2K ohm ±5% 1/4W	2
R314		Carbon 15K ohm ±5% 1/4W	1
R308		Carbon 100K ohm ±5% 1/4W	1
R109,126		Carbon 5.6K ohm ±5% 1/4W	2
R102		Carbon 270K ohm ±5% 1/4W	1
R115		Carbon 33 ohm ±5% 1/4W	1
R104		Carbon 220 ohm ±5% 1/4W	1
R507		Carbon 150 ohm ±5% 1/4W	1
R311		Carbon 3.3K ohm ±5% 1/4W	1
R306,108		Carbon 680 ohm ±5% 1/4W	2
MECHANISM (TM7900LU)			
A1	141-0-311T-32605	Shassis Ass'y	1
A2	141-0-731T-85701	Slide Ass'y, Head	1
A3	4-242T-26300	E Head	1
A4	4-242T-24671	R/D Head	1
A5	141-2-855T-42000	Spring Coil	1
A6	141-0-545T-05900	Lever Pinch Roller Ass'y	1
A7	141-0-742T-35900	Lever Ass'y	1
A8	141-2-852T-57900	Spring Wire	1
A9	141-2-457T-23800	Special Washer, 1.5mm	1
A10	123-2-472R-00200	Lug	1
A11	141-2-472T-02200	Lug	1
A12	141-2-490T-00600	Tube	1
A13	4-240T-04400	Socket, R/P Head Lead	1
A14	4-240T-04500	Socket, R/P Head Leak	1
A15	4-240T-04600	Socket, E Head Lead	1
B1	141-2-855T-43000	Spring Coil	1
B2	141-2-855T-42200	Spring Coil	1
B3	141-2-457T-23000	Special Washer, 2mm	2
B4	4-527T-17300	Motor	1
B5	141-2-421T-32300	Special Screw	2
B6	141-2-445T-25600	Rubber Cushion	2
B7	141-2-564T-24000	Square Belt	1
B8	141-0-521T-09911	Flywheel Ass'y	1
B9	141-2-453T-30102	Washer, 2.1x4x0.5 Nylon)or	1
	141-2-453T-30101	Washer, 2.1x4x0.25 Nylon	
B10	141-2-457T-08201	Special Washer	1
B11	141-0-524T-08600	Bracket Flywheel Ass'y	1
B12	141-2-661T-76401	Pulley Motor	1
B13	141-2-322T-27100	Shield Plae	1
B14	141-2-184T-02400	Tape	1
B15	141-2-455T-26200	Rubber Cushion	2
C1	141-2-731T-72402	Slide, REW	1
C2	141-2-855T-42301	Spring Coil	1
C3	141-2-457T-23800	Special Washer	1
C4	141-2-742T-34700	Lever, REW	1
C5	141-0-742T-35020	Lever Ass'y	1
C6	141-0-661T-28500	Pully Ass'y	1
C7	141-2-453T-30101	Washer, 2.1x4x0.25 Nylon	1
C8	141-2-453T-30001	Washer, 1.7x3.2x0.25 Nylon	1
C9	141-2-855T-42400	Spring Coil	1
C10	141-2-457T-23600	Special Washer	1
C11	141-2-564T-21600	Square Belt	1
C12	141-0-731T-72502	Slide Ass'y	1
C13	141-2-855T-42500	Spring Coil	1
C14	141-2-457T-23000	Special Washer, 2mm	1
D1	141-2-742T-59000	Lever	1
D2	141-2-855T-68300	Spring Coil	1
D3	141-2-457T-23000	Special Washer	1
D4	141-0-731T-72702	Slide Ass'y, Play	1
D5	141-2-742T-34900	Lever, REC	1
D6	141-2-852T-58300	Spring Wire	1
D7	141-2-457T-23800	Special Washer, 1.5mm	3
D8	141-2-731T-72800	Slide	1
D9	141-2-855T-42800	Spring Coil	1
D10	141-2-731T-72900	Slide	1
D11	141-2-490T-15600	Tube	1
D12	141-2-855T-42900	Spring Coil	1
E1	141-2-731T-72602	Slide, F. FWD	1
E2	141-2-855T-43201	Spring Coil	1
E3	141-2-742T-34800	Lever	1
E4	141-2-457T-23800	Special Washer, 1.5mm	4
E5	141-0-742T-35300	Lever Ass'y	1
E6	141-0-742T-35400	Lever Ass'y	1

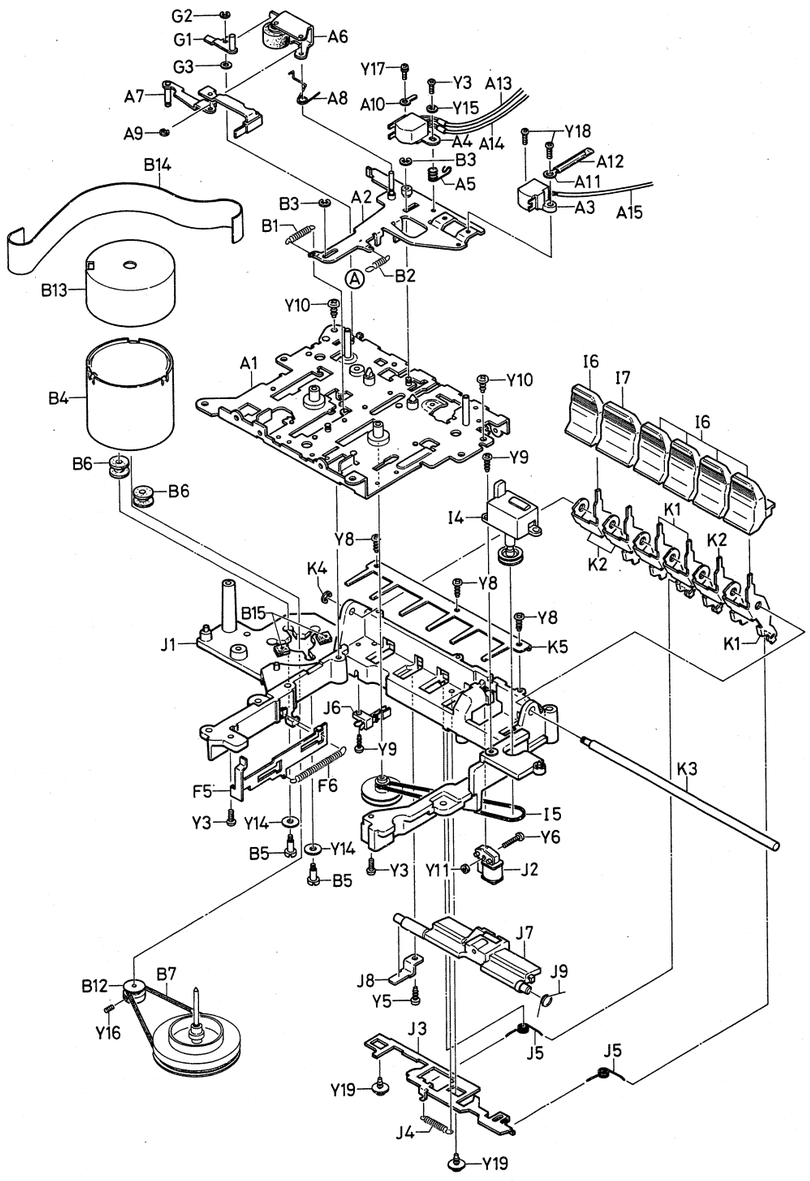
Key No.	Part No.	Description	Q'ty
MECHANISM			
E7	141-0-551T-03400	Idler Ass'y	1
E8	141-2-453T-30101	Washer, 2.1x4x0.25 Nylon	1
E9	141-2-453T-30001	Washer, 1.7x3.2x0.25 Nylon	1
E10	141-2-855T-43100	Spring Coil	1
E11	141-2-731T-73003	Slide	1
E12	141-2-855T-42100	Spring Coil	1
F1	141-2-742T-35200	Lever	1
F2	141-2-457T-23800	Special Washer	2
F3	141-2-742T-59400	Lever	1
F4	141-2-855T-67300	Spring Coil	1
F5	141-2-731T-85900	Slide, Eject	1
F6	141-2-855T-67800	Spring Coil	1
F7	141-2-731T-73102	Slide, Panse	1
F8	141-2-858T-08700	Bracket Spring	1
F9	141-2-855T-42100	Spring Coil	1
F10	141-2-742T-35600	Lever	1
F11	141-2-852T-58000	Spring Wire	1
F12	141-2-453T-32700	Special Washer	1
G1	141-0-742T-37900	Lever Ass'y	1
G2	141-2-457T-23800	Special Washer	2
G3	141-2-457T-34700	Special Washer	1
G4	141-2-365T-44200	Bracket, Switch	1
G5	4-238T-11200	Switch, Main	1
G6	141-0-532T-04201	Reel Guide Ass'y	1
G7	141-2-453T-30101	Washer, 2.1x4x0.25 Nylon	2
G8	141-2-661T-28400	Pulley, Supply	1
G9	141-2-457T-23700	Special Washer	1
G10	141-2-457T-11002	Special Washer	1
G11	141-2-742T-34500	Lever, Play	1
G12	141-2-581T-15801	Gear	1
G13	141-2-453T-30001	Washer, 1.7x3.2x0.25 Nylon	1
H1	141-0-574T-02700	Roller Ass'y	1
H2	141-2-581T-15600	Gear	1
H3	141-2-453T-30102	Washer, 2.1x4x0.5 Nylon	1
H4	141-2-742T-36000	Lever	1
H5	141-2-853T-63400	Spring Plate	1
H6	141-2-453T-61000	Washer, 1.8x3.5x0.3	1
H7	141-0-532T-04201	Reel Guide Ass'y	1
H8	141-2-457T-11002	Special Washer	1
H9	141-2-457T-23700	Special Washer	1
H10	141-2-731T-73200	Slide	1
H11	141-2-461T-35400	Pipe	1
H12	141-2-461T-35500	Pipe	1
H13	141-2-457T-23800	Special Washer, 1.5mm	1
H14	141-2-457T-23000	Special Washer, 2mm	2
H15	141-2-855T-43300	Spring Coil	1
H16	141-0-742T-35800	Lever Ass'y	1
I1	141-2-742T-35700	Lever	1
I2	141-2-855T-42700	Spring Coil) or	1
	141-2-855T-42701	Spring Coil	
I3	141-2-457T-23800	Special Washer, 1.5mm	2
I4	141-2-811T-08600	Counter	1
I5	141-2-564T-24100	Square Belt	1
I6	141-2-611T-14530	Lever Push Button, Stop	5
I7	141-2-611T-14630	Lever Push Button, Panse	1
I8	141-2-742T-40601	Lever, Panse	1
I9	141-2-490T-20001	Tube	1
I10	141-2-855T-55800	Spring Coil	1
J1	141-2-351T-53300	Bracket	1
J2	4-264T-09900	Magnetic Coil	1
J3	141-2-731T-85800	Slide	1
J4	141-2-855T-68200	Spring Coil	1
J5	141-2-852T-66400	Spring Wire	2
J6	4-238T-20800	Switch, AMSS	1
J7	141-0-742T-58900	Lever Ass'y, AMSS	1
J8	141-2-747T-21900	Bracket, Lever	1
J9	141-2-852T-67800	Spring Wire	1
K1	141-2-742T-59200	Lever	2
K2	141-2-742T-59300	Lever	3
K3	141-2-753T-96900	Shaft	1
K4	141-2-457T-23000	Special Washer	1
K5	141-2-853T-69700	Spring Plate	1
K7	141-2-742T-59301	Lever	1
MECHANISM HARDWARE			
Y1		Pan Hd. Screw 1.7x2	1
Y2		Pan Hd. Screw, 2x4	1
Y3		Pan Hd. Screw, 2x6	3
Y4		Pan Hd. Screw, 2.3x4	2
Y6		Pan Hd. Screw, 2x12	1
Y7		Flat Hd. Screw, 2.6x6	2
Y8		Pan Hd. Tapping Screw, 2.3x4	3

PARTS LIST

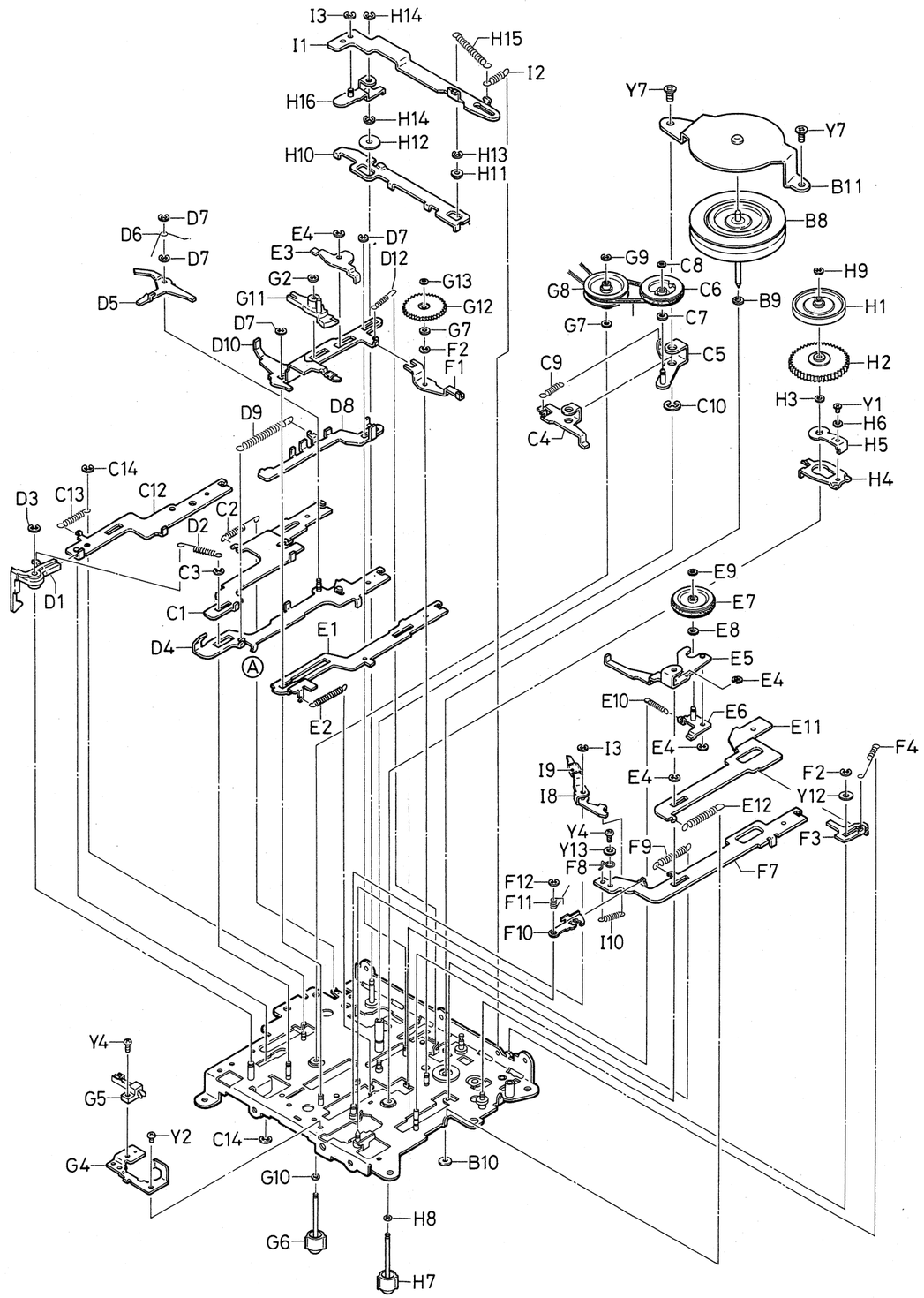
Key No.	Part No.	Description	Q'ty
MECHANISM HARDWARE			
Y9		Pan Hd. Tapping Screw, 2.3x6	2
Y10		Pan Hd. Tapping Screw, 3x8	2
Y11		Hexagon Nut 2	1
Y12		Washer, 2x4x0.4t	1
Y13		Washer, 2.3x4.3x0.4t	1
Y14		Washer, 3x8x0.5t	2
Y15		Washer, 2x4.8x0.32	1

Key No.	Part No.	Description	Q'ty
MECHANISM HARDWARE			
Y16		Head Less Screw, 2x4	1
Y18		Pan Hd. Screw W/spring, Washer, 2x6	3
Y19		Pan Hd. Tapping Screw W/Washer, 3x5	2
Y20		Pan Hd. Tapping Screw, 2.3x8	1

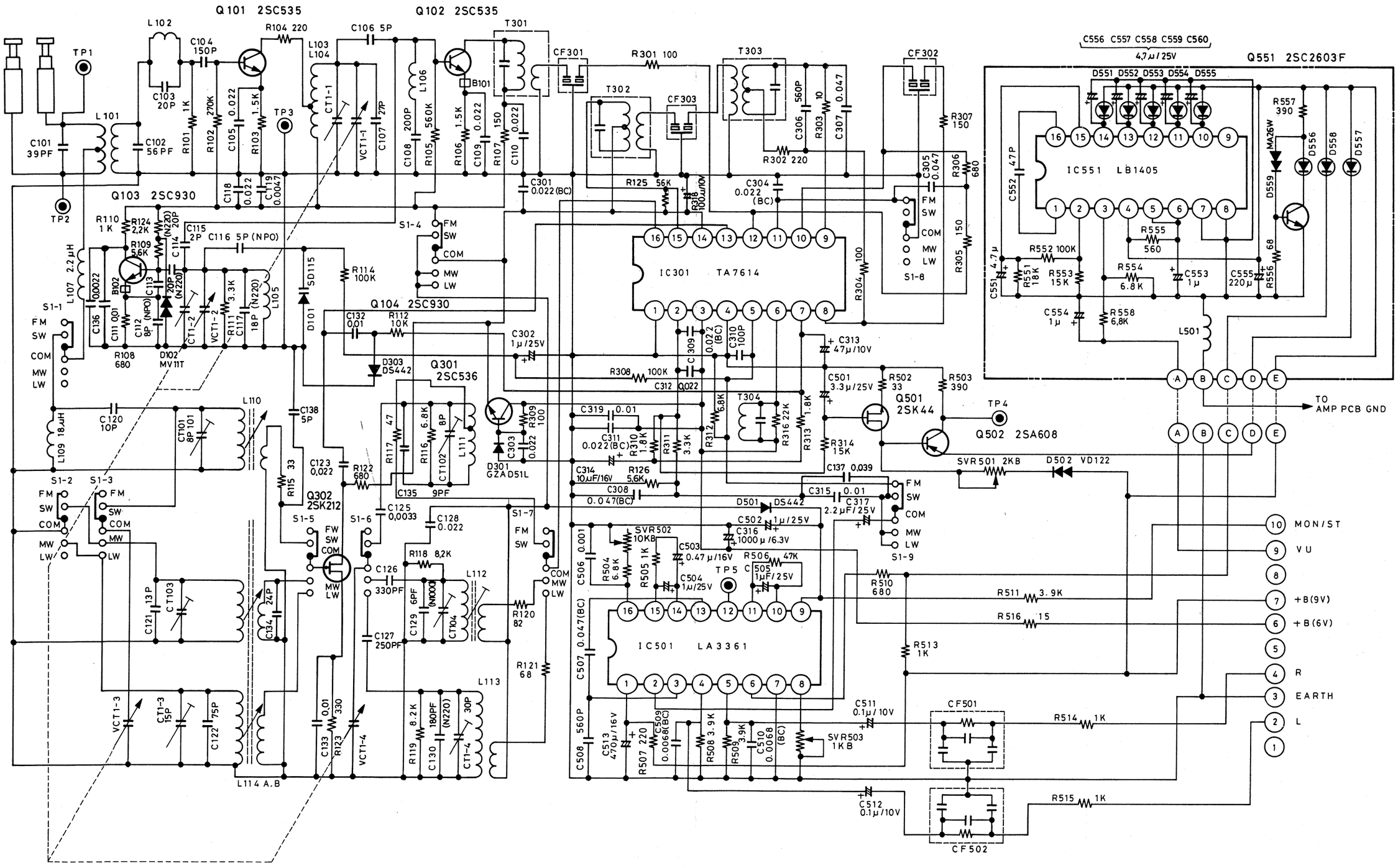
EXPLODED VIEW (MECHANISM 1)

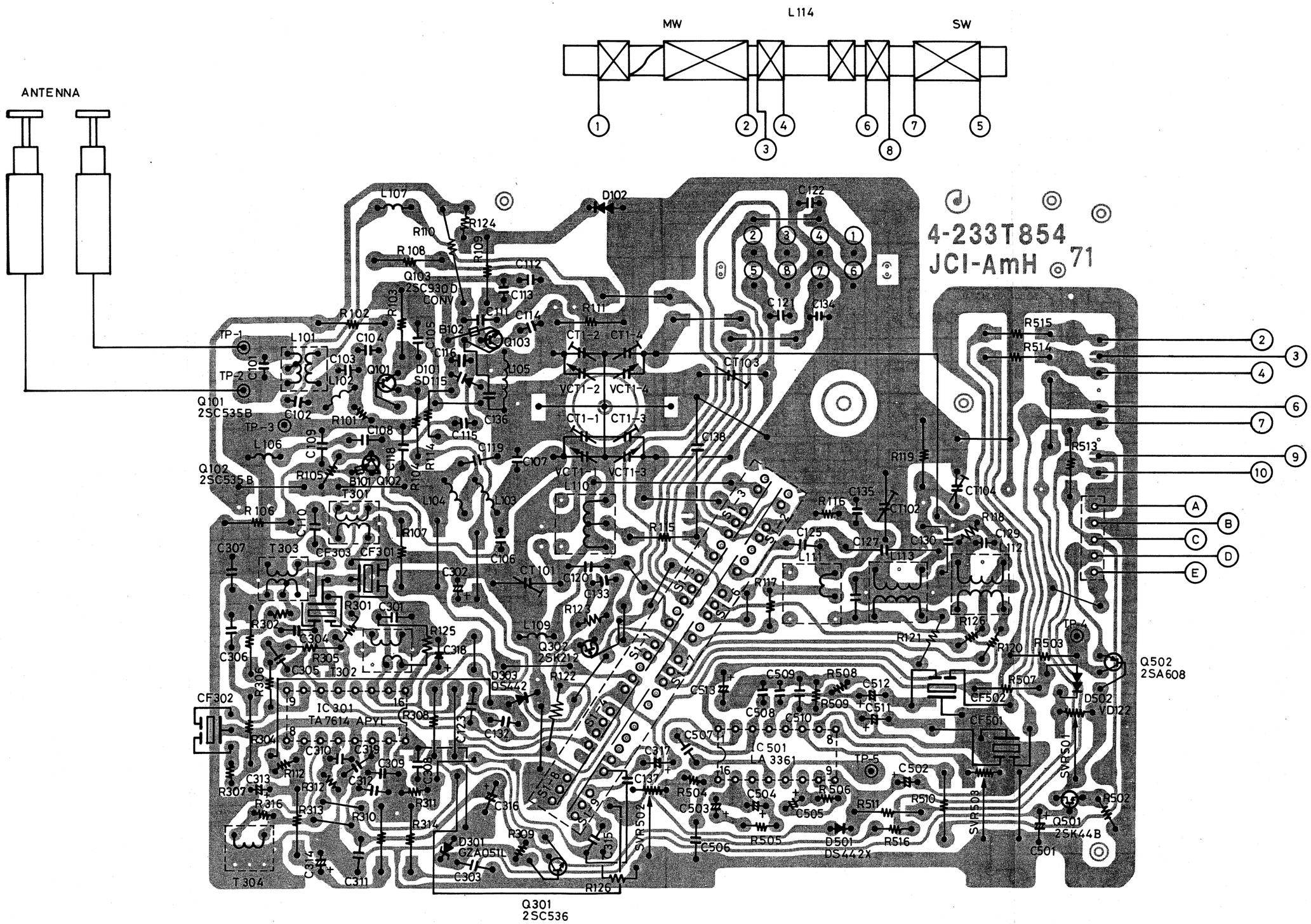


EXPLODED VIEW (MECHANISM 2)



SCHEMATIC DIAGRAM (TUNER)




L114
MW
SW
1
2
3
4
6
7
8
5
ANTENNA
4-233T854
JCI-AmH 71
L107
D102
C122
R110
R124
R108
R109
C112
C113
Q103
2SC930D
CONV
C103
R102
C105
C111
C114
R111
C121
C134
TP-1
L101
C104
B102
Q103
CT1-2
CT1-4
TP-2
C116
L105
CT103
C103
Q101
D101
SD115
L102
VCT1-2
VCT1-4
Q101
2SC535B
C102
C136
CT1-1
CT1-3
TP-3
R101
C108
C115
C138
L106
C109
C119
C107
R513
R119
R105
B101
Q102
VCT1-1
VCT1-3
Q102
2SC535B
T301
L110
CT104
L104
L103
C135
R116
R106
C110
R115
C125
C127
C130
R118
C129
R107
CT102
C106
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L113
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C307
T303
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CF301
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C120
C133
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R125
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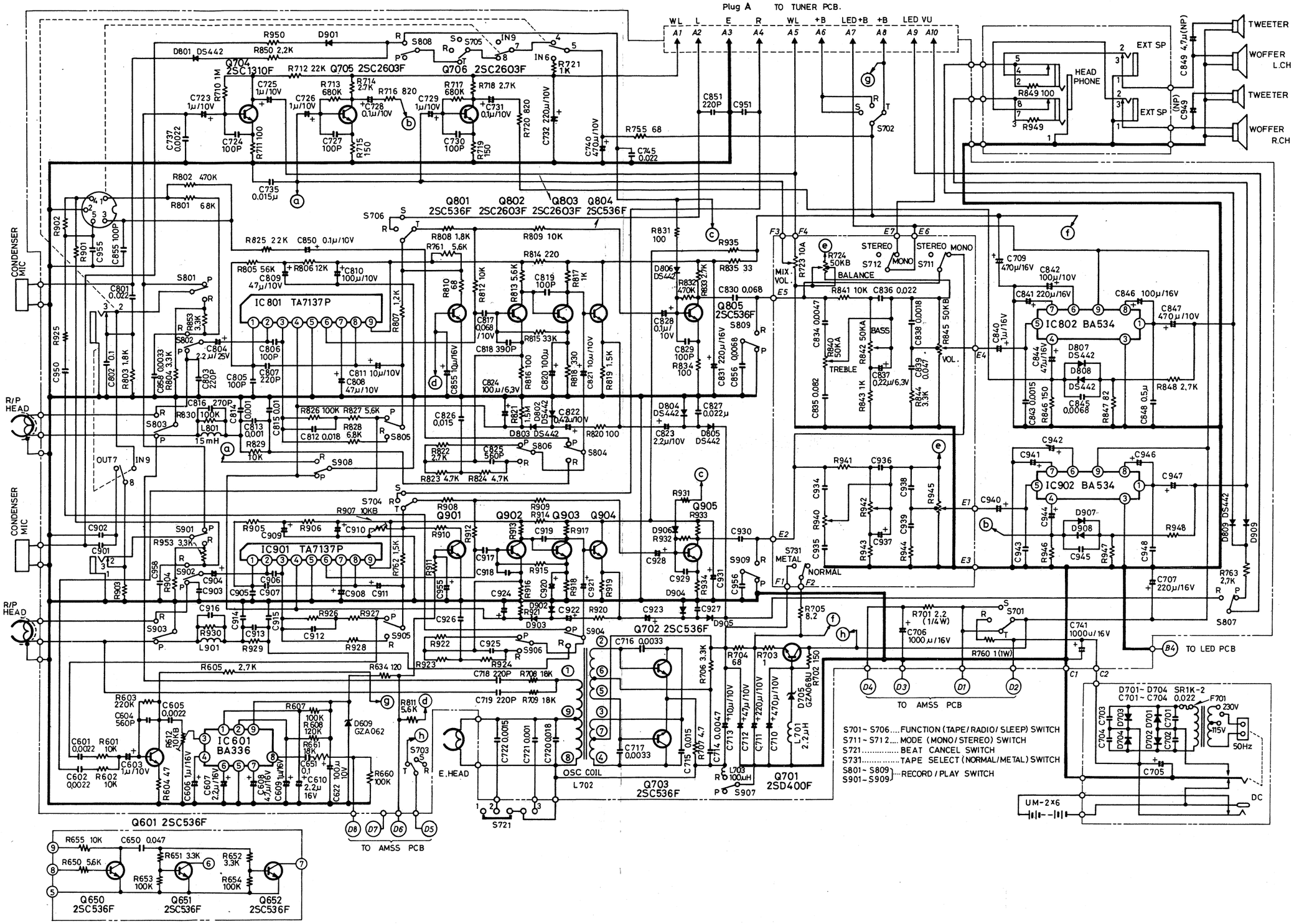
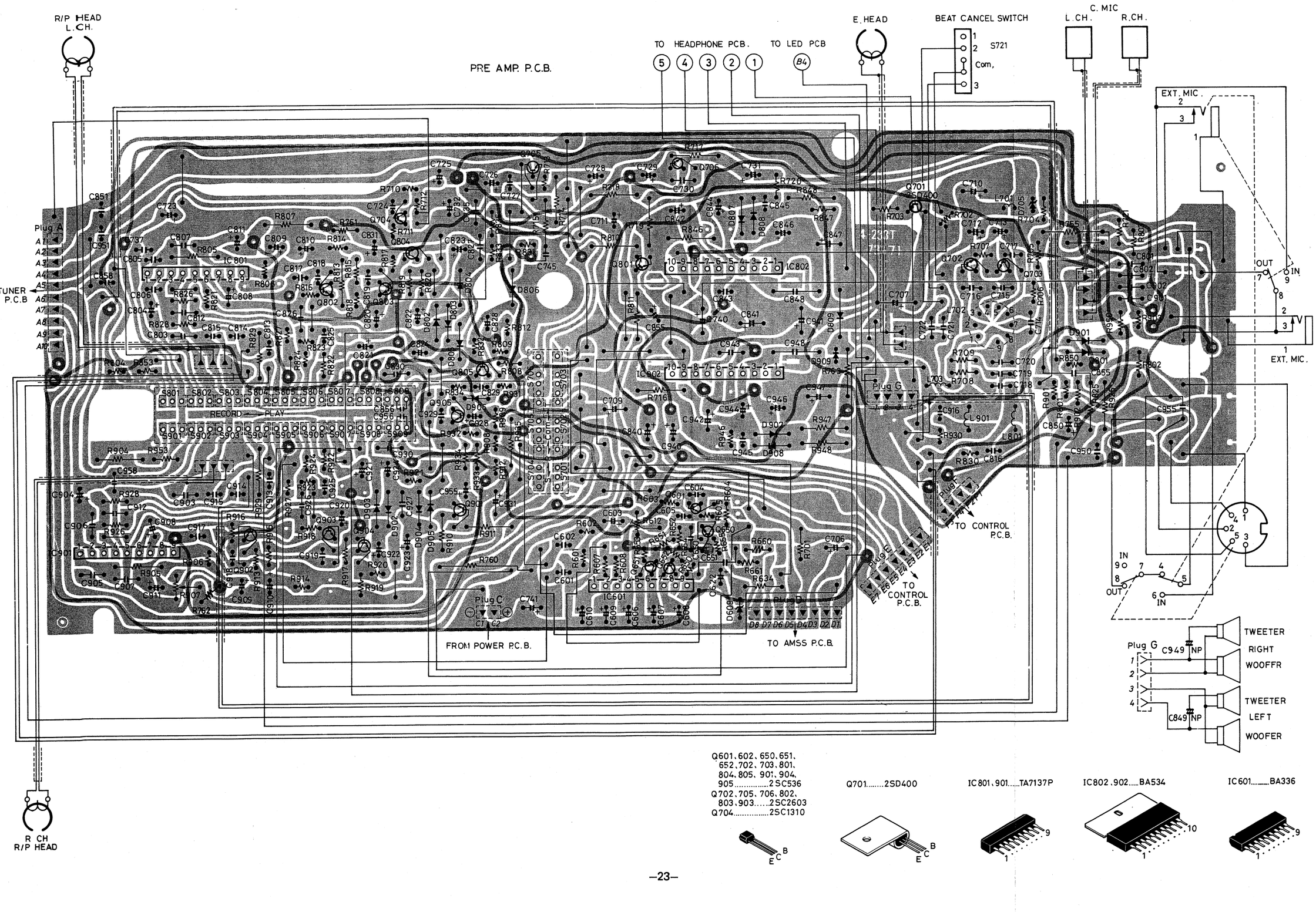
TP-4
C306
R305
C318
Q302
2SK212
R121
R120
R503
C305
T302
C309
D303
DS442
R122
C509
R508
Q502
2SA608
CF302
C513
C512
R507
C508
R509
C511
CF502
D502
VD122
IC301
TA 7614 APYI
R308
C123
C510
CF501
C132
C507
R304
C310
C319
C317
C501
LA 3361
TP-5
C502
C313
C305
C137
R504
C504
R506
R307
R312
C312
C503
C505
R511
R510
R316
R313
R310
R314
R309
C315
SVR502
C506
R505
D501
DS442X
R516
SVR503
SVR501
R502
Q501
2SK44B
D301
GZA051L
C303
C501
C314
C311
T304
R126
Q301
2SC536
R515
R514
R513
2
3
4
6
7
9
10
A
B
C
D
E

SCHEMATIC DIAGRAM (AMP)



WIRING DIAGRAM (AMP)



Q601、602、650、651、652、702、703、801、804、805、901、904、905.....2SC536
Q702、705、706、802、803、903.....2SC2603
Q704.....2SC1310

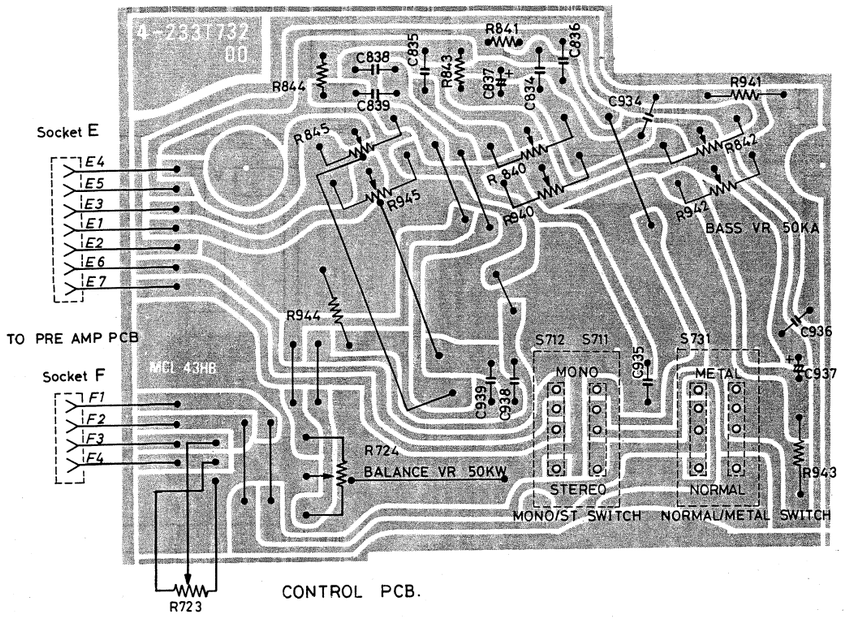
Q701.....2SD400

IC801、901.....TA7137P

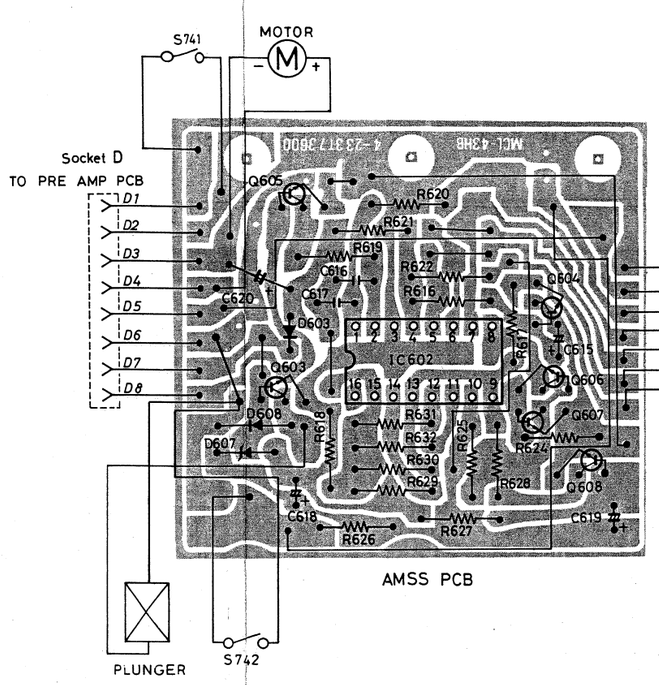
IC802、902.....BA534

IC601.....BA336

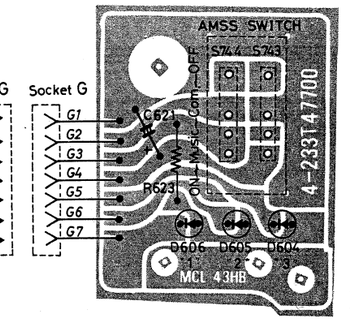
WIRING DIAGRAM (CONTROL, AMSS, AMSS SWITCH, HEADPHONE, LED, POWER SUPPLY)



CONTROL PCB.

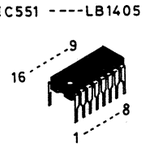


AMSS PCB

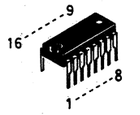


AMSS SW PCB

IC551 ----LB1405

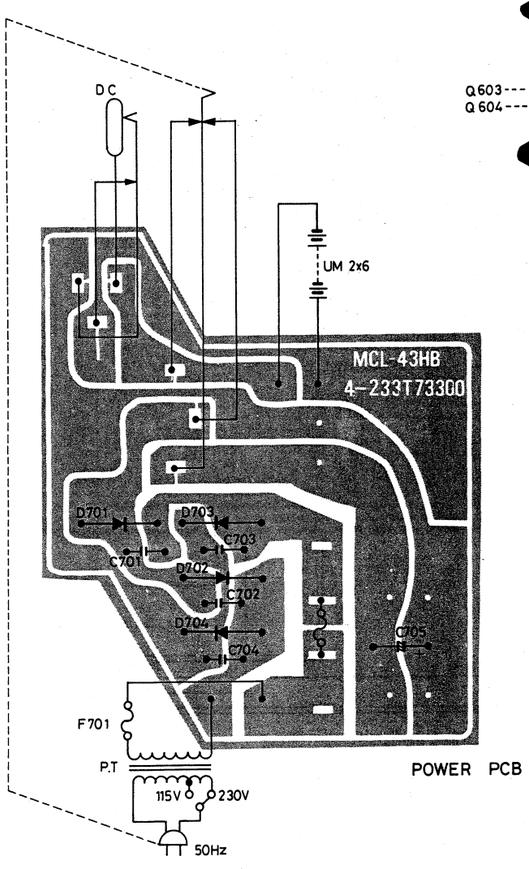


IC602 ---- M51231P



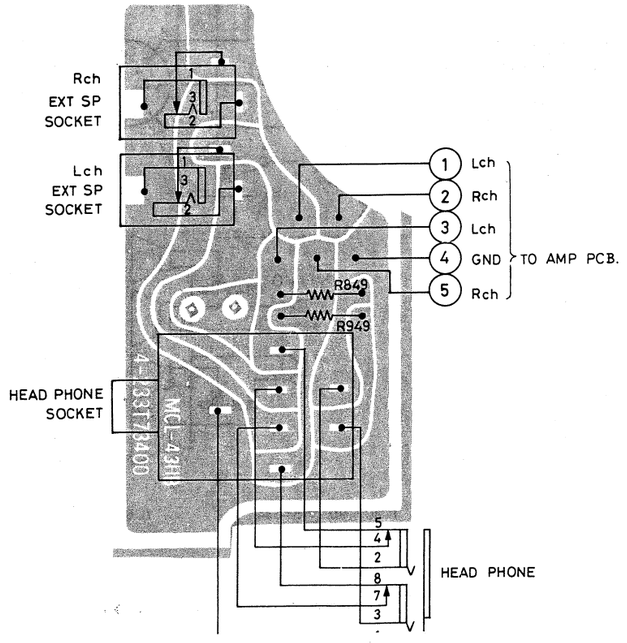
Q551---2SC2603
Q605, 606, 607
608, 609---2SC536

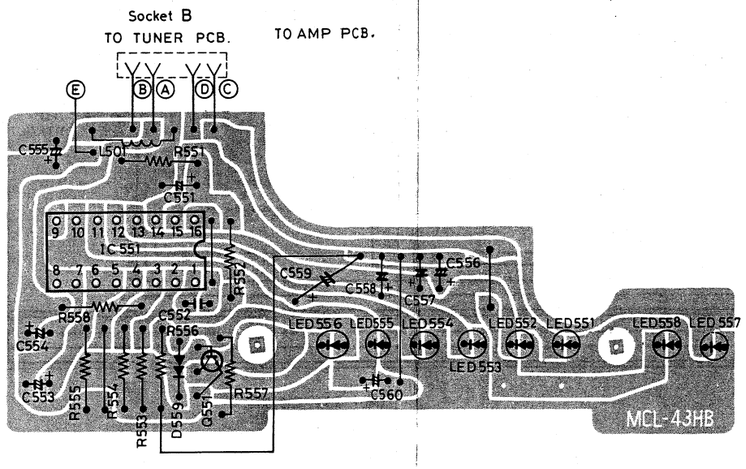
Q603---- 2SD545
Q604---- 2SA608



POWER PCB

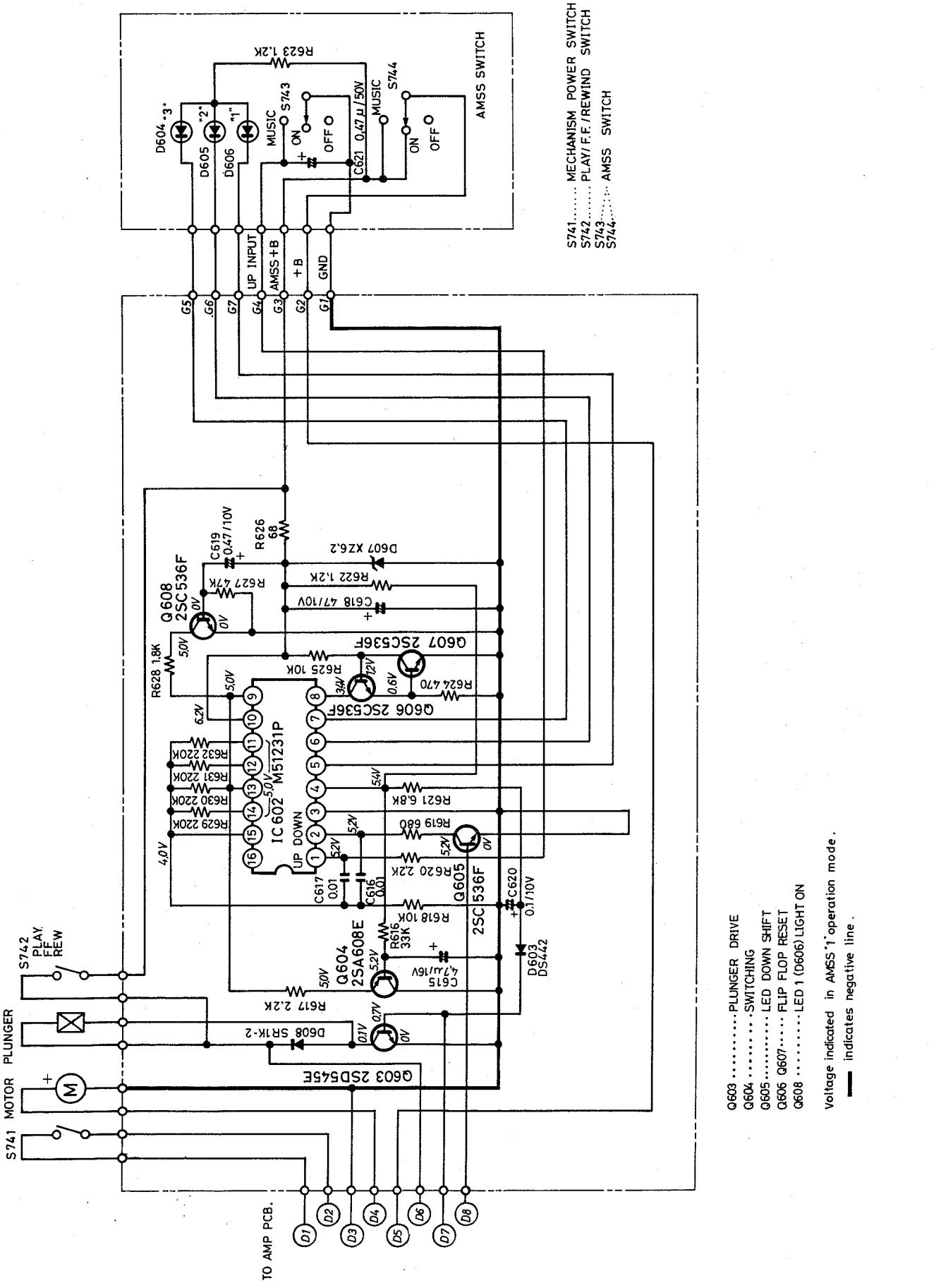
HEADPHONE PCB.





LED PCB

SCHEMATIC DIAGRAM (AMSS)



MODIFICATION NOTICE

CASSETTE RECORDER

SANYO

M 7900K(USA)	WM-5968	M 7900LU(EUROPE)	WM-5899
M 7900K(CANADA)	WM-6658	M 7900LG(UK)	WM-6607
M 7900K(AUSTLARIA)	WM-6055	M 7900K	WM-5737
M 7900K(S.AFRICA)	WM-6307		

Date Aug, 25, 1983 Issued by _____

The following corrections should be made in the SERVICE MANUALS and PARTS (PRICE) LIST.

		Section	Key No.	Part No.	Description	Q'ty	Remark	Reason
1	From	Mechanism	H1	141-0-574T-02700	Roller Assy			E
	To		"	141-0-547T-02700	"			
2	From							
	To							
3	From							
	To							

INTERCHANGEABLE NOT INTERCHANGEABLE	Serial No. Chassis No.	Effective from
Q'ty of initial production before modification.	Identification of modified unit.	

REASON FOR MODIFICATION
A ..... Standardization C ..... Improvement of reliability E ..... Miss print G .....
B ..... Change of materials D ..... Improvement of performance F ..... Miss register

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SANYO ELECTRIC TRADING CO., LTD.
OSAKA, JAPAN

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